

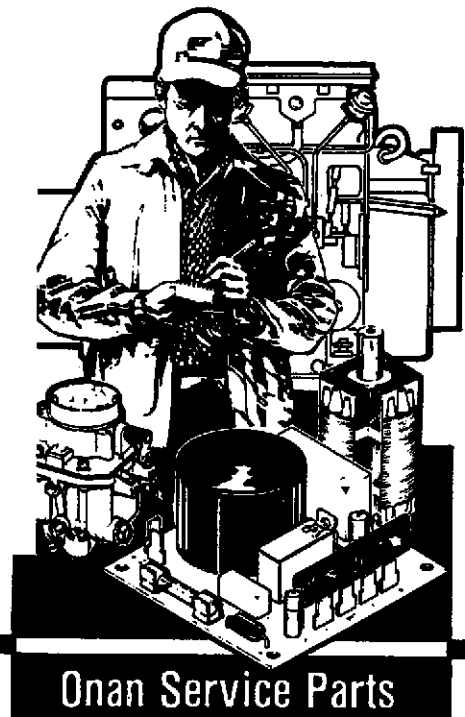
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# Onan

## Parts Manual 4.0BFA GenSet

### UTILITY VEHICLE

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Onan Service Parts

965-0262  
1-88 (SPEC C,D)  
Replaces  
12-84 (SPEC C)  
Printed in U.S.A.



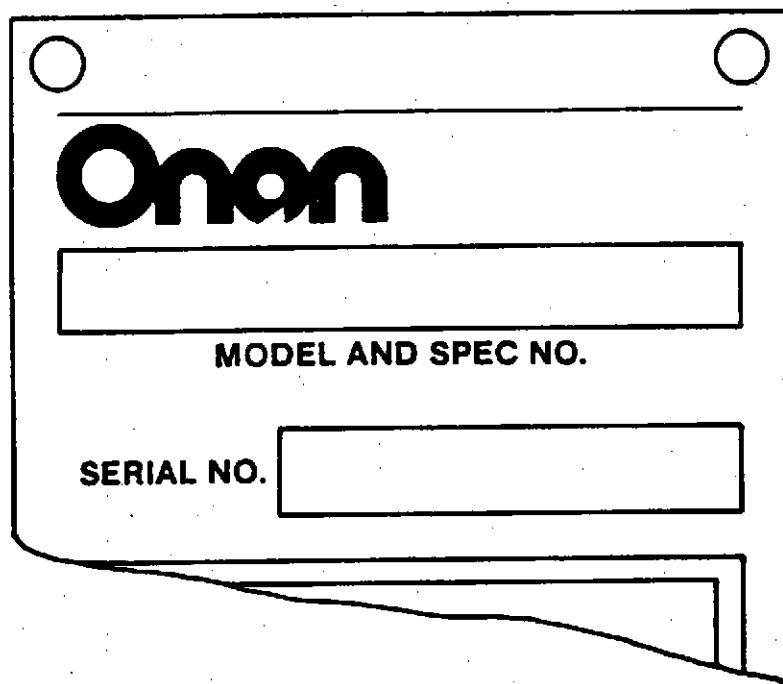
**Power  
Generation**

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## General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

A rectangular nameplate template with rounded corners and two circular mounting holes at the top. The Onan logo is prominently displayed at the top. Below it is a large rectangular box for the model and specification number. Further down is a smaller rectangular box for the serial number, preceded by the text 'SERIAL NO.'. The bottom right corner of the template is folded over.

**Onan**

**MODEL AND SPEC NO.**

**SERIAL NO.**

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

# Important Safety Precautions

Read and observe these safety precautions when using or working on electric generators, engines and related equipment. Also read and follow the literature provided with the equipment.

Proper operation and maintenance are critical to performance and safety. Electricity, fuel, exhaust, moving parts and batteries present hazards that can cause severe personal injury or death.

## FUEL, ENGINE OIL, AND FUMES ARE FLAMMABLE AND TOXIC

Fire, explosion, and personal injury can result from improper practices.

- Used engine oil, and benzene and lead, found in some gasoline, have been identified by government agencies as causing cancer or reproductive toxicity. When checking, draining or adding fuel or oil, do not ingest, breathe the fumes, or contact gasoline or used oil.
- Do not fill tanks with engine running. Do not smoke around the area. Wipe up oil or fuel spills. Do not leave rags in engine compartment or on equipment. Keep this and surrounding area clean.
- Inspect fuel system before each operation and periodically while running.
- Equip fuel supply with a positive fuel shutoff.
- Do not store or transport equipment with fuel in tank.
- Keep an ABC-rated fire extinguisher available near equipment and adjacent areas for use on all types of fires except alcohol.
- Unless provided with equipment or noted otherwise in installation manual, fuel lines must be copper or steel, secured, free of leaks and separated or shielded from electrical wiring.
- Use approved, non-conductive flexible fuel hose for fuel connections. Do not use copper tubing as a flexible connection. It will work-harden and break.

## EXHAUST GAS IS DEADLY

- Engine exhaust contains carbon monoxide (CO), an odorless, invisible, poisonous gas. Learn the symptoms of CO poisoning.
- Never sleep in a vessel, vehicle, or room with a genset or engine running unless the area is equipped with an operating CO detector with an audible alarm.
- Each time the engine or genset is started, or at least every day, thoroughly inspect the exhaust system. Shut down the unit and repair leaks immediately.

- Warning: Engine exhaust is known to the State of California to cause cancer, birth defects and other reproductive harm.

*Make sure exhaust is properly ventilated.*

- Vessel bilge must have an operating power exhaust.
- Vehicle exhaust system must extend beyond vehicle perimeter and not near windows, doors or vents.
- Do not use engine or genset cooling air to heat an area.
- Do not operate engine/genset in enclosed area without ample fresh air ventilation.
- Expel exhaust away from enclosed, sheltered, or occupied areas.
- Make sure exhaust system components are securely fastened and not warped.

## MOVING PARTS CAN CAUSE SEVERE PERSONAL INJURY OR DEATH

- Do not remove any guards or covers with the equipment running.
- Keep hands, clothing, hair, and jewelry away from moving parts.
- Before performing any maintenance, disconnect battery (negative [-] cable first) to prevent accidental starting.
- Make sure fasteners and joints are secure. Tighten supports and clamps, keep guards in position over fans, drive belts, etc.
- If adjustments must be made while equipment is running, use extreme caution around hot manifolds and moving parts, etc. Wear safety glasses and protective clothing.

## BATTERY GAS IS EXPLOSIVE

- Wear safety glasses and do not smoke while servicing batteries.
- Always disconnect battery negative (-) lead first and reconnect it last. Make sure you connect battery correctly. A direct short across battery terminals can cause an explosion. Do not smoke while servicing batteries. Hydrogen gas given off during charging is explosive.
- Do not disconnect or connect battery cables if fuel vapors are present. Ventilate the area thoroughly.

## **DO NOT OPERATE IN FLAMMABLE AND EXPLOSIVE ENVIRONMENTS**

Flammable vapor can be ignited by equipment operation or cause a diesel engine to overspeed and become difficult to stop, resulting in possible fire, explosion, severe personal injury and death. **Do not operate diesel equipment where a flammable vapor environment can be created by fuel spill, leak, etc., unless equipped with an automatic safety device to block the air intake and stop the engine.**

## **HOT COOLANT CAN CAUSE SEVERE PERSONAL INJURY**

- Hot coolant is under pressure. Do not loosen the coolant pressure cap while the engine is hot. Let the engine cool before opening the pressure cap.

## **ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH**

- Do not service control panel or engine with unit running. High voltages are present. Work that must be done while unit is running should be done only by qualified service personnel.
- Do not connect the generator set to the public utility or to any other electrical power system. Electrocution can occur at a remote site where line or equipment repairs are being made. An approved transfer switch must be used if more than one power source is connected.
- Disconnect starting battery (negative [-] cable first) before removing protective shields or touching electrical equipment. Use insulative mats placed on dry wood platforms. Do not wear jewelry, damp clothing or allow skin surface to be damp when handling electrical equipment.
- Use insulated tools. Do not tamper with interlocks.
- Follow all applicable state and local electrical codes. Have all electrical installations performed by a qualified licensed electrician. Tag open switches to avoid accidental closure.
- With transfer switches, keep cabinet closed and locked. Only authorized personnel should have cabinet or operational keys. Due to serious shock hazard from high voltages within cabinet, all service and adjustments must be performed by an electrician or authorized service representative.

If the cabinet must be opened for any reason:

1. Move genset operation switch or Stop/Auto/Handcrank switch (whichever applies) to Stop.
2. Disconnect genset batteries (negative [-] lead first).
3. Remove AC power to automatic transfer switch. If instructions require otherwise, use extreme caution due to shock hazard.

## **MEDIUM VOLTAGE GENERATOR SETS (601V TO 15kV)**

- Medium voltage acts differently than low voltage. Special equipment and training are required to work on or around medium voltage equipment. Operation and maintenance must be done only by persons trained and qualified to work on such devices. Improper use or procedures will result in severe personal injury or death.
- Do not work on energized equipment. Unauthorized personnel must not be permitted near energized equipment. Induced voltage remains even after equipment is disconnected from the power source. Plan maintenance with authorized personnel so equipment can be de-energized and safely grounded.

## **GENERAL SAFETY PRECAUTIONS**

- Do not work on equipment when mentally or physically fatigued or after consuming alcohol or drugs.
- Carefully follow all applicable local, state and federal codes.
- Never step on equipment (as when entering or leaving the engine compartment). It can stress and break unit components, possibly resulting in dangerous operating conditions from leaking fuel, leaking exhaust fumes, etc.
- Keep equipment and area clean. Oil, grease, dirt, or stowed gear can cause fire or damage equipment by restricting airflow.
- Equipment owners and operators are solely responsible for operating equipment safely. Contact your authorized Onan/Cummins dealer or distributor for more information.

**KEEP THIS DOCUMENT NEAR EQUIPMENT FOR EASY REFERENCE.**

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## Introduction

This Catalog applies to the BFA Utility Vehicles Generator Set. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the Model and Spec No. from the nameplate, select Parts that apply to your Model and Spec No. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left sides are determined by facing the engine end (front) of the set.

### Engine Data Table

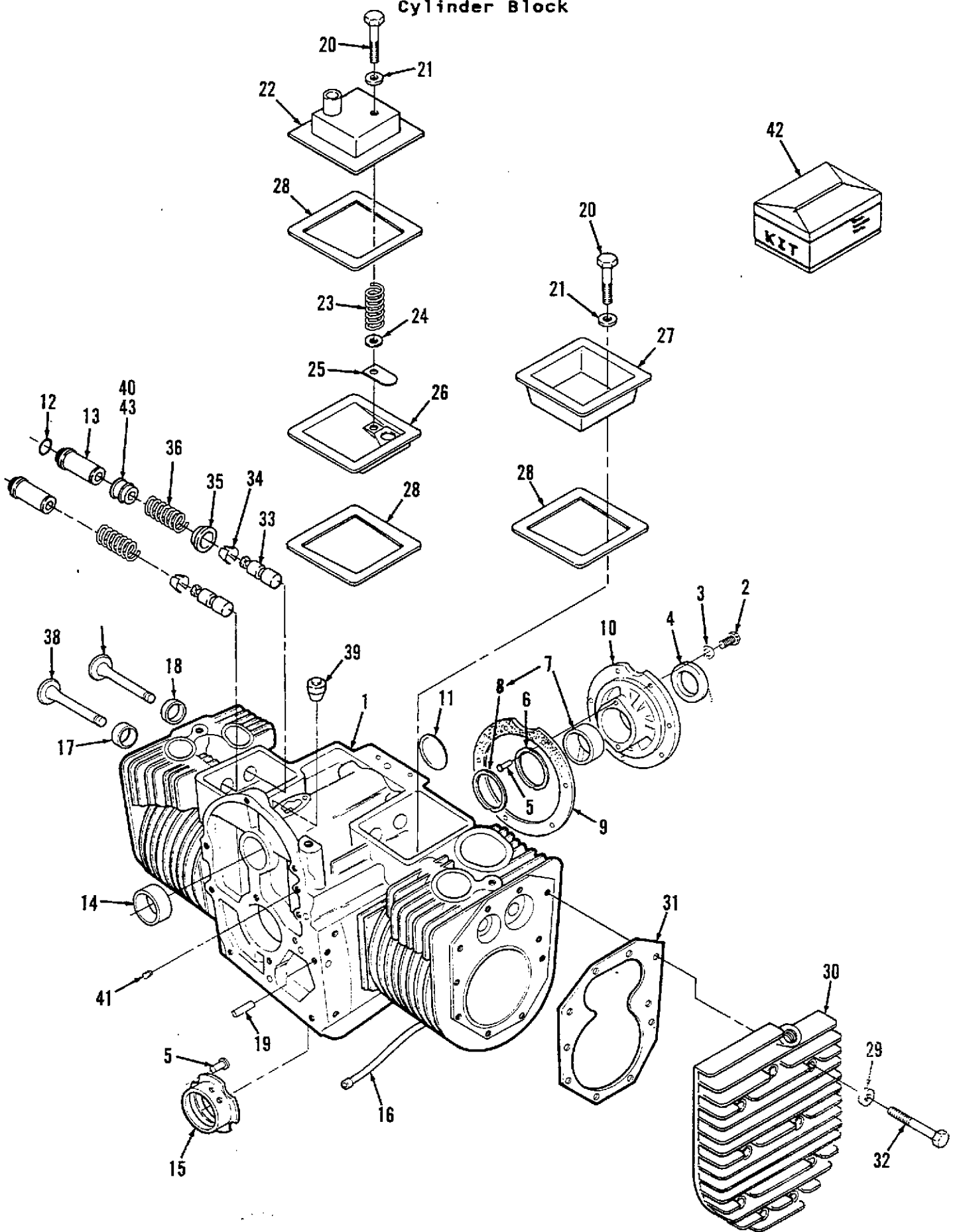
Model and Specification Number	Volts	Parts Key Number
4.0 BFA-3CR/15000C	120/240	1
4.0 BFA-1R/19486C	120	2
4.0 BFA-1R/19486D	120	3
4.0 BFA-3CR/20275C	120/240	4
4.0 BFA-5DR/22540C	120/240	5
4.0 BFA-5DR/22541C	120/240	6
4.0 BFA-3CR/25206C	120/240	7
4.0 BFA-3CR/26651C	120/240	8
4.0 BFA-3CR/26805C	120/240	9
4.0 BFA-5DR/27696C	120/240	10
4.0 BFA-5DR/27919C	120/240	11
4.0 BFA-3CR/28530C	120/240	12

606-0205  
606-0220

611-1142-09



# Cylinder Block



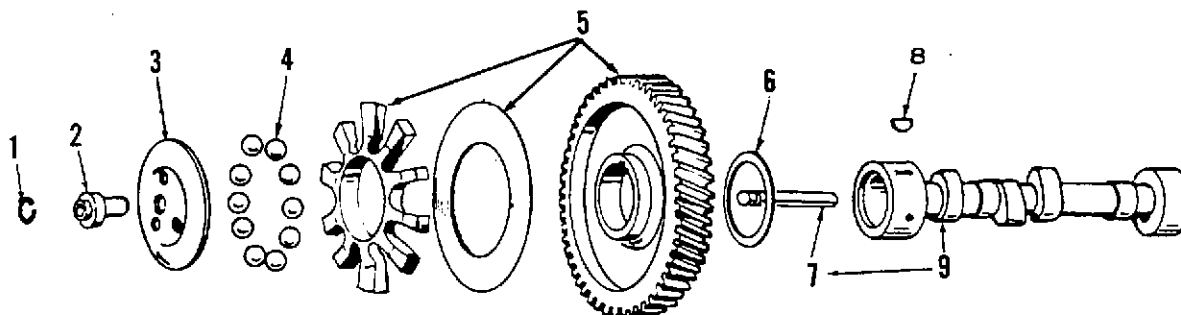


# Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-3148	1	Block, Cylinder (Includes Parts Marked*)	22	110-2274	1	Cover, Valve (With Breather Port)
2	800-0051	5	*Screw, Cap - Hex Head (3/8-16x1-1/4")	23	123-1174	1	Spring, Breather Valve
3	850-0050	5	*Washer, Lock - Spring (3/8")	24	526-0018	1	Washer, Flat (1/4" Screw)
4	509-0041	1	*Seal, Oil	25	123-1175	1	Reed, Breather Valve
5	516-0072	4	*Pin, Drive - Bearing Stop	26	123-1173	1	Baffle, Breather Valve
6	104-0776	AR	*Shim (.005")	27	110-1879	1	Cover, Valve (Without Breather Port)
7			Bearing, Crankshaft - Rear (Includes Thrust Washer)	28	110-1921	3	Gasket, Valve Cover
	101-0450	1	* Standard	29	526-0122	18	Washer, Flat (5/16" Screw)
	101-0450-02	1	.002" Undersize	30			Head, Cylinder
	101-0450-10	1	.010" Undersize		110-2562	1	Right Side
	101-0450-20	1	.020" Undersize		110-2561	1	Left Side
	101-0450-30	1	.030" Undersize	31			Gasket, Head
8	104-0575	2	*Washer, Thrust		110-2287	2	All Except Key 3
9	101-0415	1	*Gasket, Bearing Plate		110-0892	2	Key 3
10	101-0439	1	*Plate, Bearing - Rear	32			Screw, Cap - Hex Head
11	517-0048	1	*Plug, Expansion - Welch		800-0540	12	5/16-18x1-5/8"(Grade 8)
12	110-0068	2	*Gasket, Intake Valve Guide		800-0541	6	5/16-18x2"(Grade 8)
13			*Guide, Valve	33			Tappet, Valve
	110-1807	2	Exhaust		115-0006	4	Standard
	110-3055	2	Intake - Sets With Valve Stem Oil Seals		115-0006-02	4	.002" Oversize
			Intake - Sets Without Valve Stem Oil Seals		115-0006-05	4	.005" Oversize
14	101-0405	2	*Bearing, Camshaft	34	110-0639	8	Lock, Valve Spring
15			Bearing, Crankshaft - Front	35			Retainer, Valve Spring
	101-0432	1	* Standard		110-0904	4	Rotator - Keys 1,2,4,5,6,8, 9,10,12
	101-0432-02	1	.002" Undersize		110-0893	4	Washer (Used In Place Of Rotators On Intake Valves)
	101-0432-10	1	.010" Undersize				Keys 7,11
	101-0432-20	1	.020" Undersize		110-0904	2	Rotator - Key 3
	101-0432-30	1	.030" Undersize		110-0893	2	Washer (Used In Place Of Rotators On Intake Valves)
16	120-0735	1	*Tube, Oil Crankcase				Key 3
17			Insert, Valve Seat - Exhaust	36	110-0539	4	Spring, Valve
	110-1824	2	* Standard	37			Valve, Intake
	110-1824-02	2	.002" Oversize		110-1808	2	Keys 1,2,3,4,7,8,9,11,12
	110-1824-05	2	.005" Oversize		110-2368	2	Keys 5,6,10
	110-1824-10	2	.010" Oversize	38			Valve, Exhaust
	110-1824-25	2	.025" Oversize		110-1955	2	All Except Key 3
18			Insert, Valve Seat - Intake		110-1809	2	Key 3
	110-0197	2	* Standard	39	517-0120	1	Plug, Cylinder Block Opening
	110-0197-02	2	.002" Oversize				Keys 1,2,8,9,12
	110-0197-05	2	.005" Oversize	40	110-3236	2	Seal, Valve - Intake
	110-0197-10	2	.010" Oversize				(Optional)
	110-0197-25	2	.025" Oversize	41	517-0067	1	*Plug, Welch
19	516-0141	2	*Pin, Gearcase Alignment	42			Kits
20	800-0010	2	Screw, Cap - Hex Head (1/4-20x1-3/4")		168-0144	1	Gasket (Carbon Removal)
			Washer, Flat - Copper (1/4" Screw)		168-0143	1	Gasket (Complete Engine)
21	526-0063	2		43	509-0168	2	Seal, Valve - Intake (Optional)

\* - Parts Included In 110-3148 Cylinder Block.

# Camshaft

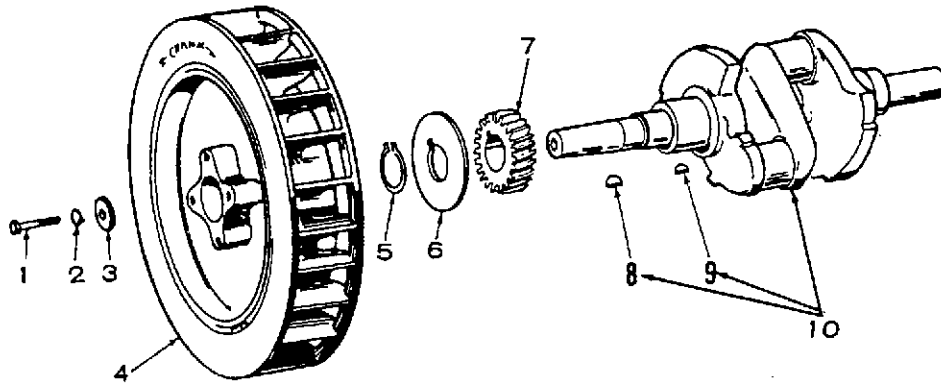


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REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining
2	150-1519	1	Hub, Governor Cup
3	150-1520	1	Cup, Governor
4	S10-0015	10	Ball, Governor
5	105-0332	1	Gear, Camshaft (Includes Spacer And Plate)

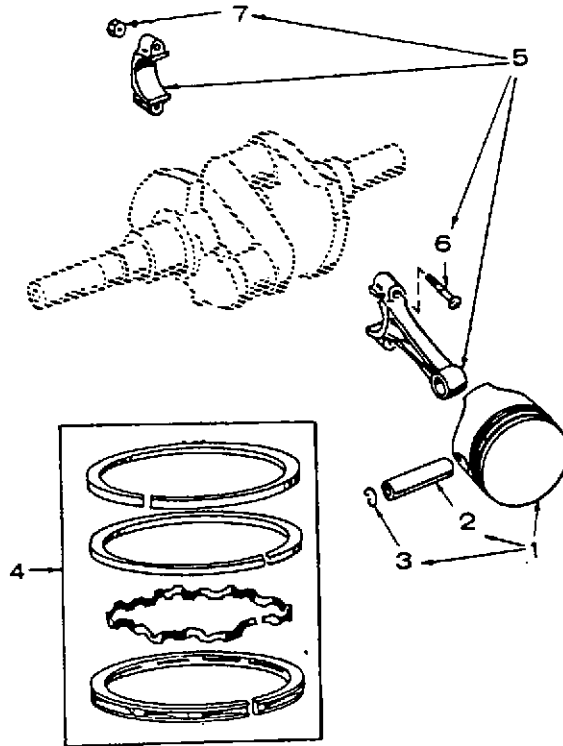
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	105-0541	1	Washer, Thrust
7	150-0075	1	Pin, Center
8	S15-0001	1	Key, Woodruff
9	105-0637	1	Camshaft(Includes Center Pin)

## Crankshaft And Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head Heat Treated (Special)	6	104-0043	1	Washer, Gear
2	850-0055	1	Washer, Lock - Spring (7/16")	7	104-0032	1	Gear, Crankshaft
3	526-0017	1	Washer, Flat (7/16" Screw)	8	515-0227	1	Kit, Key - All Except Keys 1,2
4	134-3871	1	Flywheel	9	515-0001	1	Key, Woodruff - All Keys
5	518-0014	1	Ring, Retaining	10	104-1331	1	Crankshaft (Includes Keys)

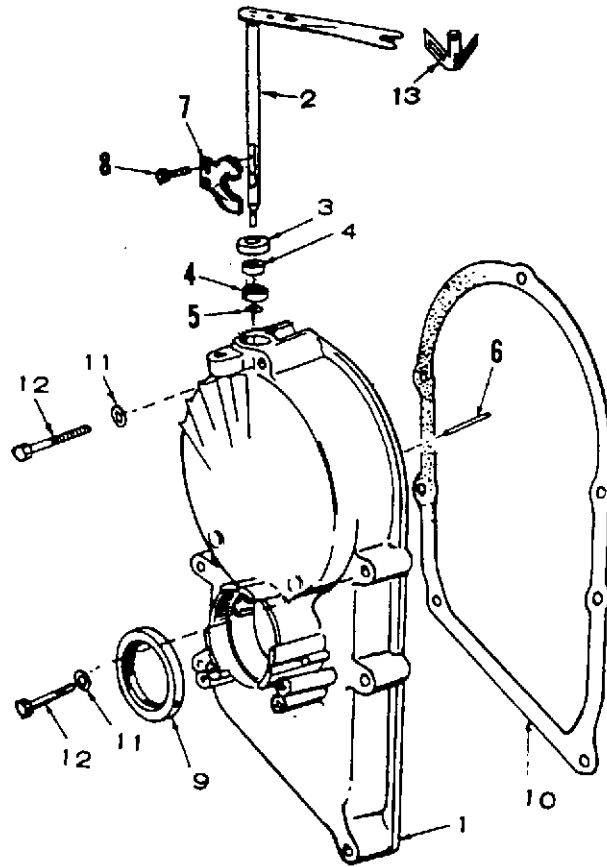
## Piston And Rod



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston (Includes Pin And Retaining Rings)
	112-0186	2	Standard
	112-0186-05	2	.005" Oversize
	112-0186-10	2	.010" Oversize
	112-0186-20	2	.020" Oversize
	112-0186-30	2	.030" Oversize
	112-0186-40	2	.040" Oversize
2	112-0229	2	Pin, Piston
3	518-0311	4	Ring, Retaining
4			Ring Set, Piston
	113-0189	2	Standard
	113-0189-05	2	.005" Oversize
	113-0189-10	2	.010" Oversize
	113-0189-20	2	.020" Oversize
	113-0189-30	2	.030" Oversize
	113-0189-40	2	.040" Oversize

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5			Rod, Connecting (Includes Bolt And Nut)
	114-0300	2	Standard
	114-0300-10	2	.010" Undersize
	114-0300-20	2	.020" Undersize
	114-0300-30	2	.030" Undersize
6	114-0240	4	Bolt, Connecting Rod (Special)
7	870-0302	4	Nut, Hex - Crown Lock (5/16-24)

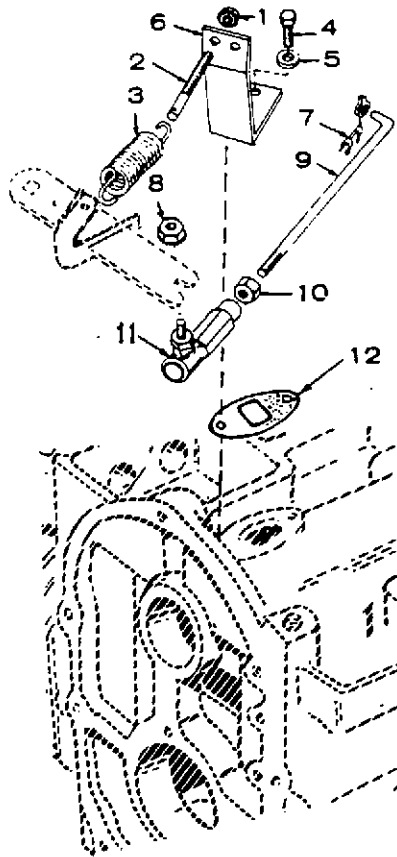
## Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0667	1	Gearcase (Kit) (Includes Parts Marked*)	8	815-0046	2	*Screw, Machine - Pan Head (8-32x3/8")
2	150-1542	1	*Arm And Shaft, Governor	9	509-0040	1	*Seal, Oil - Crankshaft
3	509-0008	1	*Seal, Oil - Governor Shaft	10	103-0408	1	Gasket, Gearcase Mounting
4	510-0013	2	*Bearing, Needle	11	526-0065	5	Washer, Flat - Copper (5/16" Screw)
5	510-0014	1	*Ball, Bearing	12			Screw, Cap, Hex Head
6	516-0130	1	*Pin, Dowel - Governor Cup Stop		800-0032	4	5/16-18x1-3/4"
7	150-1187	1	*Yoke, Governor		800-0034	1	5/16-18x2-1/4"
				13	150-0678	1	*Clip, Sensitivity Adjustment

\* - Parts Included In 103-0667 Gearcase.

# Governor

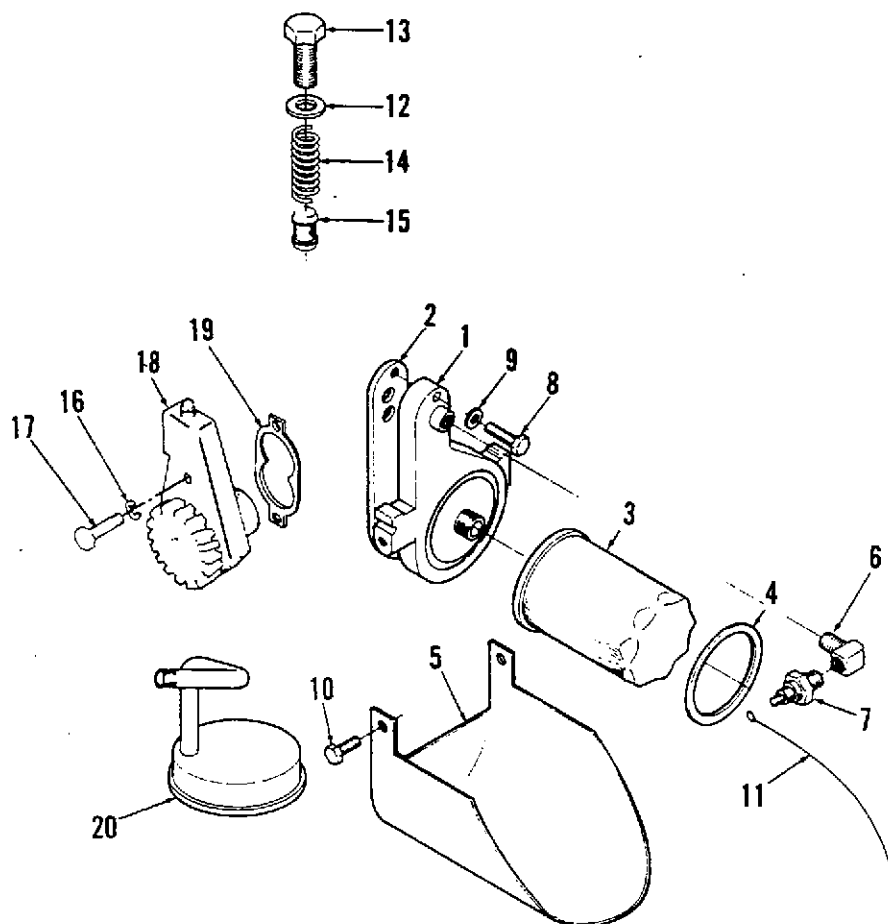


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0131	1	Nut, Hex - Self Locking (1/4-20")
2	150-0096	1	Stud, Speed Adjustment
3	150-1612	1	Spring, Governor
4	800-0004	2	Screw, Cap - Hex Head (1/4-20x5/8")
5	526-0063	2	Washer, Flat (1/4" Screw)
6	150-1577	1	Bracket, Governor
7	518-0004	1	Clip, Retaining

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	870-0131	1	*Nut, Hex - Self Locking (1/4-20)
9	150-0629	1	*Rod, Governor Arm To Carburetor
10	870-0053	1	*Nut, Hex (#10-32)
11	150-0639	1	*Joint, Ball
12	149-0003	1	Gasket, Governor Bracket
	150-0630	1	Linkage, Governor (Includes Parts Marked*)

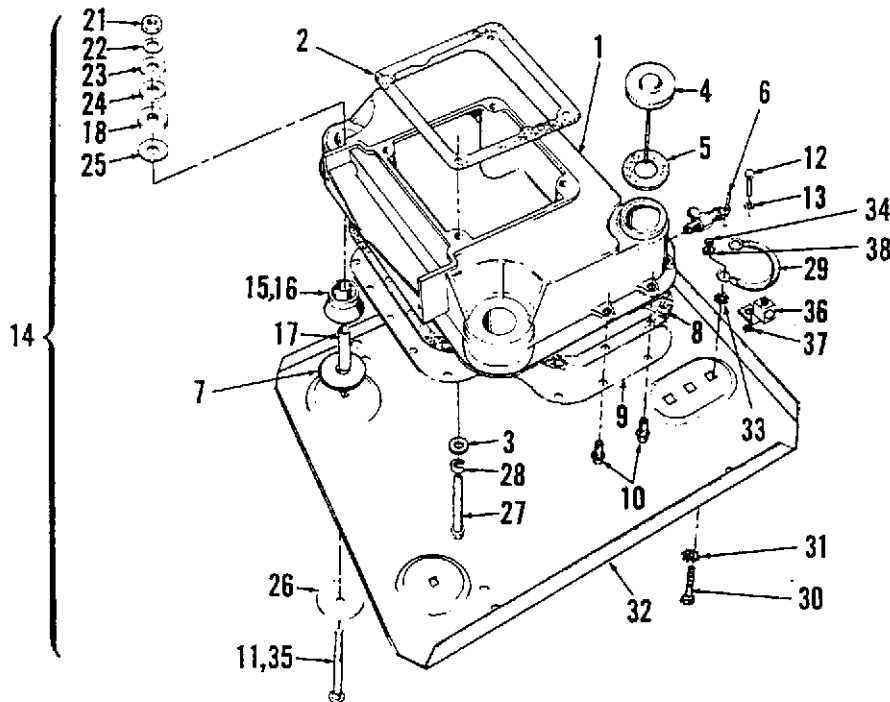
\* - Parts Included In 150-0630 Governor Linkage.

## Oil System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0320	1	Adapter, Oil Filter	11	336-3377	1	Lead, Electrical - Low Oil Pressure Switch
2	122-0321	1	Gasket, Oil Filter Adapter Mounting	12	526-0066	1	Washer, Flat (3/8" Screw)
3	122-0645	1	Filter, Oil - Spin-On	13	801-0050	1	Screw, Cap - Hex Head (3/8-24x1")
4	122-0347	1	Seal, Air - Oil Filter	14	120-0140	1	Spring, Oil By-Pass Valve
5	122-0360	1	Drain, Oil Filter	15	120-0398	1	Valve, Oil By-Pass
6	502-0053	1	Elbow, Street - 45°	16	850-0040	2	Washer, Lock - Spring (1/4")
7	309-0319	1	Switch, Low Oil Pressure	17	800-0007	2	Screw, Cap - Hex Head (1/4-20x1")
8	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	18	120-0491	1	Pump, Oil (Components Not Sold Separately)
9	526-0065	2	Washer, Flat - Copper (5/16" Screw)	19	120-0161	1	Kit, Gasket - Oil Pump
10	815-0194	2	Screw, Tapping - Hex Head (#10-32x3/8")	20	120-0413	1	Cup, Oil Pump Intake (Includes Screw Pipe And Cup)

# Oil Base And Mounting Hardware



LS 1003-1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-0957	1	Base, Oil (Includes Parts Marked*)
2	102-1200	1	Gasket, Oil Base
3	526-0030	4	Washer, Flat (3/8" Screw)
4	123-1400	1	Cap And Indicator, Oil Fill
5	123-0191	1	Gasket, Oil Fill Cap
6	504-0092	1	Valve, Oil Drain
7			Washer, Flat (7/16" Screw)
	526-0195	2	Engine End
	526-0195	2	Generator End
8	102-1275	1	*Gasket, Oil Pan Mounting
9	102-0889	1	*Pan, Oil Base
10	821-0018	20	*Screw, Cap - Hex Washer Head (1/4-20x5/8")
11			Screw, Hex Head - Cap (7/16-14x3-3/4")
	800-0082	2	Engine End
	800-0082	2	Generator End
12	800-0047	1	Screw, Cap - Hex Head (3/8-16x5/8")
13	856-0010	1	Washer, Lock - EIT (3/8")
14			Package, Hardware Mounting (Includes Parts Marked#)
	402-0477	1	Engine End
	402-0480	2	Generator End
15	402-0283	2	#Cushion, Vibration Engine End
16			#Cushion, Vibration - Generator End
	402-0283	1	Left Side
	402-0283	1	Right Side
17			#Spacer, Sleeve
	402-0290	2	Engine End
	402-0290	1	Generator End(Left Side)
	402-0290	1	Generator End(Right Side)
18			#Snubber
	402-0282	2	Engine End
	402-0282	1	Generator End(Left Side)
	402-0282	1	Generator End(Right Side)
21			#Nut, Hex (7/16-14)
	862-0004	2	Engine End
	862-0004	1	Generator End(Left Side)
	862-0004	1	Generator End(Right Side)

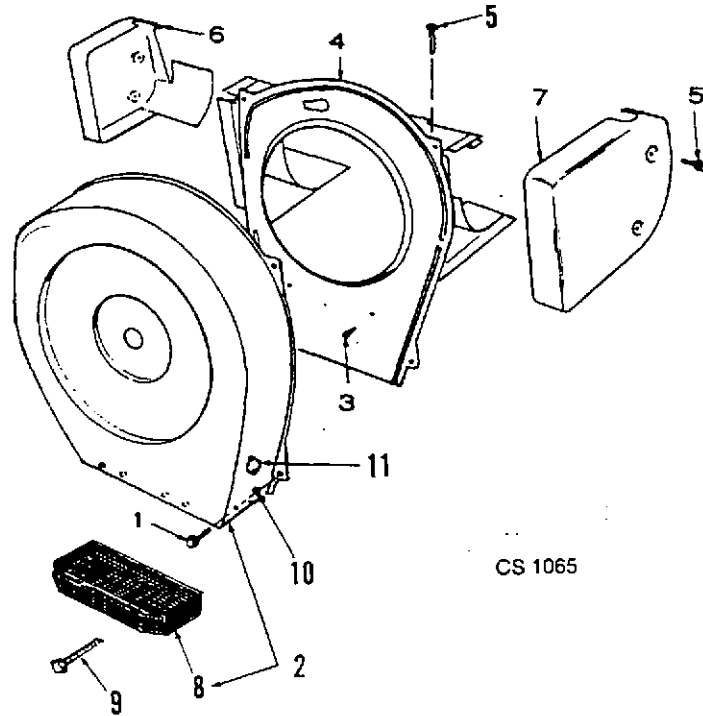
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
22			#Washer, Lock (7/16") Engine End
	850-0055	2	Generator End(Left Side)
	850-0055	1	Generator End(Right Side)
23			#Washer, Flat (7/16" Screw)
	526-0014	2	Engine End
	526-0014	1	Generator End(Left Side)
	526-0014	1	Generator End(Right Side)
24			#Washer, Flat (9/16" Screw)
	526-0198	2	Engine End
	526-0198	2	Generator End(Left Side)
	526-0198	1	Generator End(Right Side)
25			#Washer, Flat (1" Screw)
	526-0286	1	Generator End(Left Side)
	526-0286	1	Generator End(Right Side)
26			#Washer, Flat (5/8" Screw)
	526-0038	2	Engine End
	526-0038	1	Generator End
27	800-0064	4	Screw, Cap - Hex Head (3/8-16x4-1/2")
28	850-0050	4	Washer, Lock - Spring (3/8")
29			Strap, Ground
	337-0418	1	5" Long - Key 6
	337-2055	1	6" Long - All Except Key 6
30	816-0197	1	Bolt, Carriage (7/16-14 x 1-1/4") - All Except Key 6
31	856-0016	1	Washer, Lock (EIT) (5/8")
32	403-1484	1	Plate, Mounting - All Except Key 6
33	856-0012	1	Washer, Lock (EIT) (7/16")
34	862-0004	1	Nut, Hex (7/16-14)
35			#Bolt, Carriage (7/16-14x3-1/2")
	816-0206	2	Engine End
	816-0206	1	Generator End(Left Side)
	816-0206	1	Generator End(Right Side)
36	332-0142	1	Terminal, Ground
37	856-0006	1	Washer, Lock - EIT (1/4")
38	850-0055	1	Washer, Lock (7/16")

\* - Parts Included In 102-0956 Oil Base.

# - Parts Included In Hardware Mounting Package.

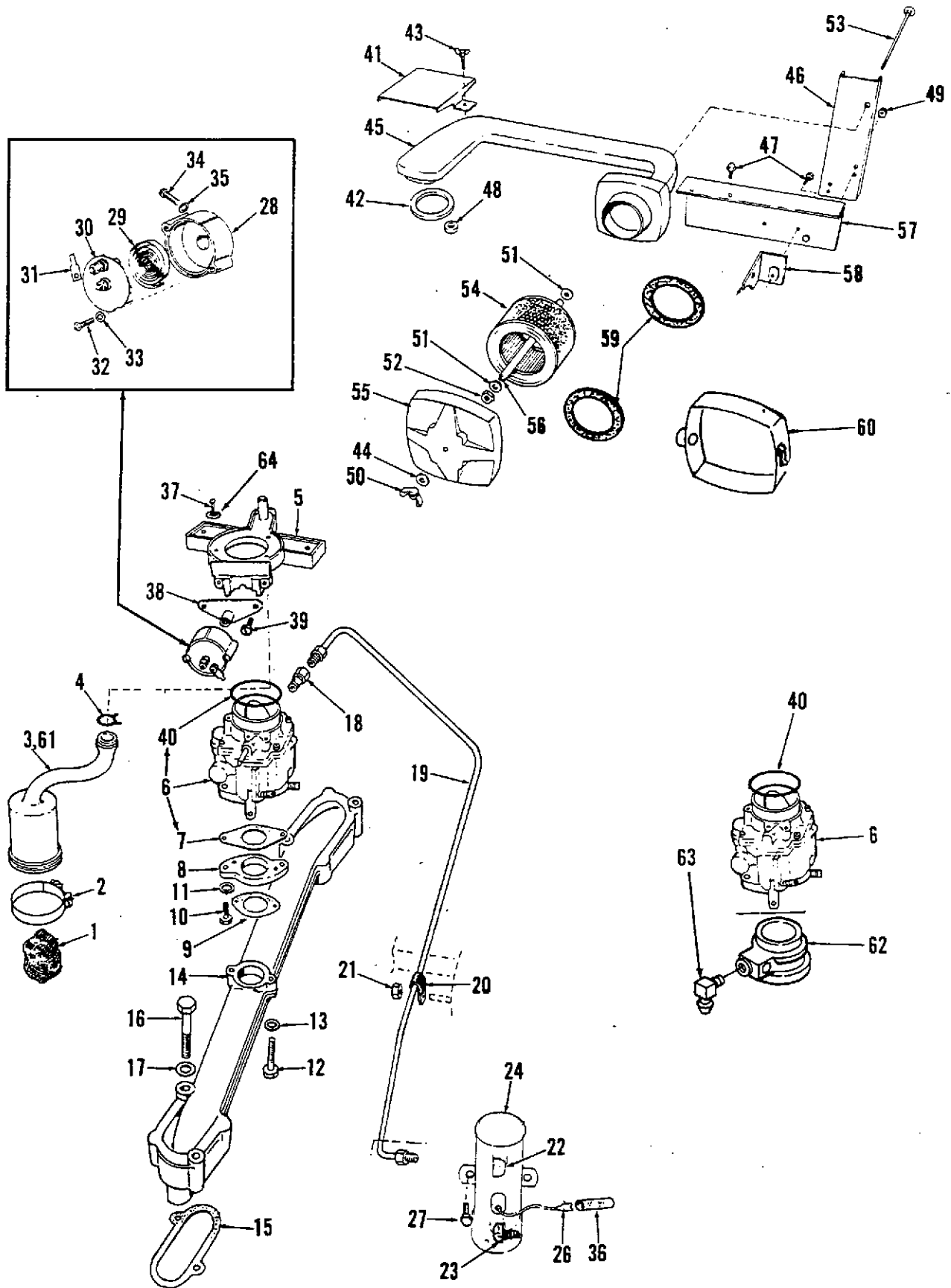


# Air Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0008	4	Screw, Cap - Hex Head (1/4-20x5/16")	6	134-3701	1	Housing, Cylinder Air - Left Side
2	134-4387	1	2 Position, With-Out Guard - Key 9	7	134-3700	1	Housing, Cylinder Air - Right Side
	134-3149	1	Includes Guard - Keys 1,2,3	8	134-3418	1	Guard, Scroll
3	821-0010	2	Screw, Cap - Hex Washer Head (1/4-20x1/2" Long)		134-4316	1	Screen
4	134-3888	1	Backplate, Scroll				Keys 1, 2, 3
	134-3688	1	3 O-Clock Position - Key 4	9	815-0421	4	Guard - Wire Type - All Except Key 3
			6 O-Clock Position - Keys 2, 3,5,6,7,10,11	10	850-0040	4	Screw, Self-Tapping - Hex Head (10-16x1/2")
	134-3928	1	9 O-Clock Position - Keys 8,9	11	309-0077	1	Washer, Lock (1/4")
5	815-0261	5	Screw, Tapping - Hex Head (1/4-20x1/2")				Switch, Temperature (Open 180° - Close 220° F)

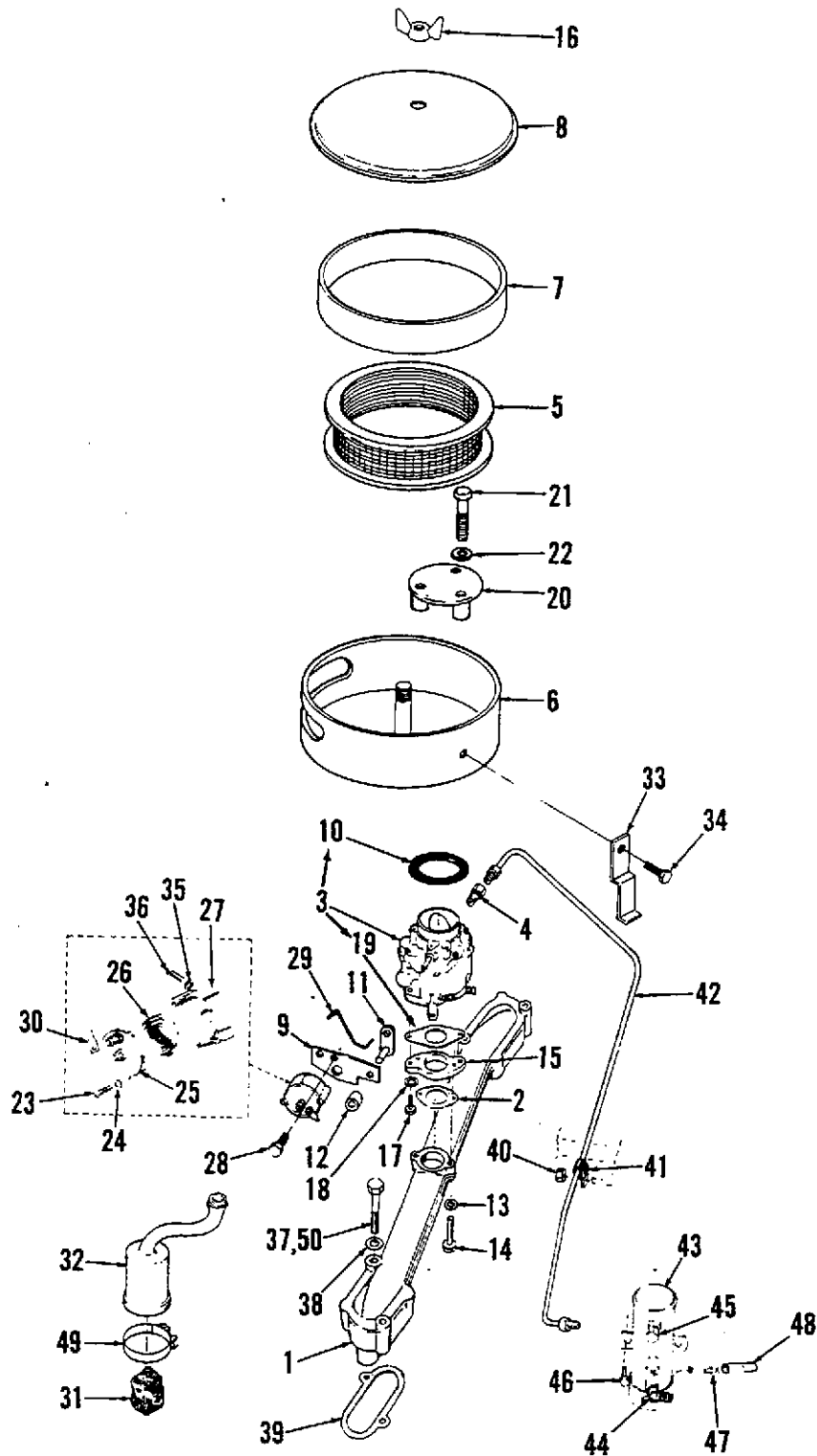
Fuel System (Low Profile Air Cleaner)  
Keys 1,2,3,4,5,7,8,9,10,11,12



# **Fuel System (Low Profile Air Cleaner)** **Keys 1,2,3,4,5,7,8,9,10,11,12**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-1417	1	Filter, Breather Hose - Gasoline Fuel System	32	815-0285	2	Screw, Machine - Round Head W/ET (#8-32x5/16")
2	503-0280	1	Clamp, Hose - Gasoline Fuel System	33	526-0062	2	Washer, Flat - Brass (#10 Screw)
3	123-1277	1	Breather Tube (Gasoline Fuel System)	34	815-0110	1	Screw, Machine - Fillister Head (#10-32x7/8")
	503-0103	1	Hose (LP Fuel System) - Keys 7,11	35	850-0030	1	Washer, Lock - Spring (#10)
4	503-0769	1	Clamp, Hose - Gasoline Fuel System	36	332-0556	1	Connector, Fuel Pump Lead Screw
5	140-1492	1	Adapter, Air Duct Gasoline Fuel System		804-0017	3	Socket Head - Gasoline Fuel (#10-32x1/2" Long)
	140-1719	1	LP Fuel System - Keys 7,11		813-0111	3	Round Head, Machine - LP Fuel System (#10-32x2-1/4")
6			Carburetor, Complete (Includes Mounting Gasket) (See Separate Page For Components)	38	153-0499	1	Adapter, Choke
	146-0419	1	Gasoline Fuel System - Nikki	39	815-0359	2	Screw, Self-Tapping - Hex Head (#10-32x7/8" Long)
	146-0404	1	LP Fuel System - Keys 7,11	40			Seal, O-Ring
7	154-0733	1	Gasket, Carburetor To Adapter		509-0145	1	Gasoline Fuel System
8	154-1977	1	Adapter, Carburetor		509-0145	2	LP Fuel System - Keys 7,11
9	145-0438	1	Gasket, Adapter To Manifold	41	140-1520	1	Clamp, Air Duct
10	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	42	140-1502	1	Seal, Air Duct To Adapter
11	850-0045	2	Washer, Lock - Spring (5/16")	43	518-0390	2	Screw, Wing (1/4-20x3/4")
12	800-0023	2	Screw, Cap - Hex Head (1/4-20x1-3/8")	44	526-0021	1	Washer, Flat (1/4" Screw)
13	850-0040	2	Washer, Lock - Spring (1/4")	45	140-1503	1	Duct, Air Cleaner
14			Manifold, Intake	46	140-1531	1	Bracket, Air Duct Support
	154-2206	1	LP Fuel System - Keys 7,11	47	821-0009	3	Screw, Cap - Hex Head Locking (1/4-20x3/8")
	154-2666	1	Gasoline Fuel System - Keys 1,2,3,4,5,8,12	48	140-1521	1	Seal, Air Duct To Breather Port
15	154-1446	2	Gasket, Intake Manifold	49	870-0212	2	Nut, Hex - Locking (1/4-20)
16	800-0033	4	Screw, Cap - Hex Head (5/16-18x2")	50	865-0019	1	Nut, Wing (1/4-20)
17	850-0045	4	Washer, Lock - Spring (5/16")	51	526-0158	2	Washer, Flat (1/4" Screw)
18	502-0003	1	Connector, Inverted Male	52	870-0212	1	Nut, Hex - Locking (1/4-20)
19	149-1531	1	Line, Fuel - Gasoline	53	816-0070	1	Bolt, Carriage (1/4-20x6-1/2")
20	518-0350	1	Clamp, Loop - Insulated Keys 1,2,3,4,5,8,9,10,12	54	140-0495	1	Element, Air Cleaner
21	862-0015	1	Nut, Hex (5/16-18)	55	140-1504	1	Cover, Air Cleaner
22	502-0002	1	Elbow, Inverted Male	56	140-1522	1	Spacer, Air Intake
23	502-0313	1	Connector, Hose (90°)	57	140-1529	1	Bracket, Air Intake Duct
24	149-1828	1	Pump, Fuel (Electric)	58	140-1528	1	Brace, Air Intake Duct
26	332-0529	1	Terminal, Fuel Pump Lead	59	140-1533	2	Seal
27	821-0008	2	Screw, Hex - Lock (1/4-20x5/16")	60	140-1672	1	Wrapper, Air Cleaner - Keys 5,10,11
28	153-0440	1	Housing, Choke (Includes Screw)	61	123-1484	1	Tube, Breather (Copper) - LP Fuel System - Keys 7,11
29	153-0017	1	Bi-Metal, Choke	62	148-0840	1	Adapter, Carburetor - LP Fuel System - Keys 7,11
30	153-0114	1	Element And Cover, Choke	63	502-0575	1	Elbow, Hose - 45° (1/2 NPT)
31	332-0527	1	Terminal, Tab	64	850-0030	3	Washer, Lock (#10) LP Fuel System

# Fuel System (High Profile Air Cleaner) Key 6

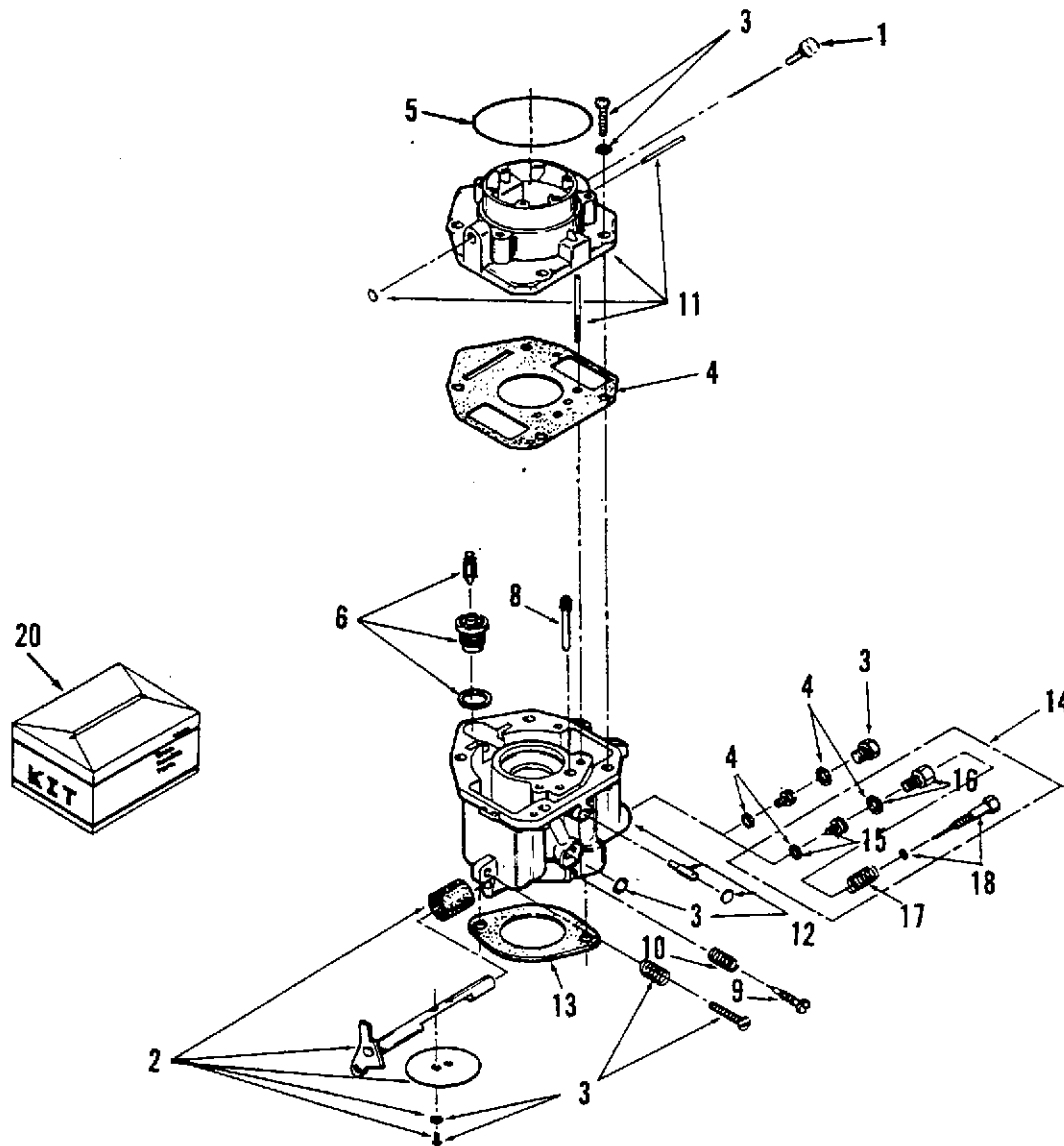


XFS 1462

# **Fuel System (High Profile Air Cleaner)** **Key 6**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2206	1	Manifold, Intake	24	526-0062	2	Washer, Flat - Brass (Special)
2	145-0438	1	Gasket, Manifold To Carburetor Adapter	25	153-0114	1	Element And Cover, Choke
3	146-0440	1	Carburetor, Gasoline (See Separate Page For Components)	26	153-0017	1	Bi-Metal, Choke
4	502-0003	1	Connector, Inverted Male	27	153-0058	1	Housing, Choke
5	140-1228	1	Element, Air Cleaner	28	821-0004	2	Screw, Cap - Hex Washer Head (#10-32x5/16")
6	140-1711	1	Housing, Air Cleaner	29	153-0541	1	Link, Choke
7	140-1496	1	Wrapper, Filter Element	30	332-0527	1	Terminal, Tab
8	140-1494	1	Cover, Air Cleaner	31	123-1417	1	Filter, Breather Tube
9	153-0539	1	Bracket And Bushing, Choke	32	123-1429	1	Tube, Breather
10	509-0145	1	Seal, O-Ring	33	140-1736	1	Bracket, Air Cleaner Support
11	146-0241	1	Shaft, Electric Choke	34	821-0009	1	Screw, Cap - Hex Washer Head (1/4-20x3/8")
12	518-0387	1	Ring, Retainer	35	815-0110	1	Screw, Machine - Fillister Head (#10-32x7/8")
13	850-0040	2	Washer, Lock - Spring (1/4")	36	850-0030	1	Washer, Lock - Spring (#10)
14	800-0023	2	Screw, Cap - Hex Head (1/4-20x1-3/8")	37	800-0033	3	Screw, Cap - Hex Head (5/16-18x2")
15	154-1977	1	Adapter, Carburetor	38	850-0045	4	Washer, Lock - Spring (5/16")
16	865-0006	1	Nut, Wing (1/4-20)	39	154-1446	2	Gasket, Intake Manifold
17	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	40	862-0015	1	Nut, Hex (5/16-18)
18	850-0045	2	Washer, Lock - Spring (5/16")	41	518-0350	1	Clamp, Loop - Insulated
19	154-0733	1	Gasket, Carburetor To Adapter	42	149-1705	1	Line, Fuel
20	145-0521	1	Deflector, Carburetor Air Intake	43	149-1828	1	Pump, Fuel - Electric
21	815-0470	3	Screw, Machine - Hex Head (#10-32x1-1/2")	44	502-0313	1	Connector, Hose (90°)
22	526-0234	3	Washer, Flat (#10 Screw)	45	502-0002	1	Elbow, Inverted Male
23	815-0285	2	Screw, Machine - Round Head W/ET (#8-32x5/16")	46	821-0008	2	Screw, Cap - Hex Lock (1/4-20x5/16")
				47	332-0529	1	Terminal, Fuel Pump Lead
				48	332-0556	1	Connector, Fuel Pump Lead
				49	503-0280	1	Clamp, Breather Tube
				50	800-0034	1	Screw, Cap - Hex Head (5/16-18x2-1/4")

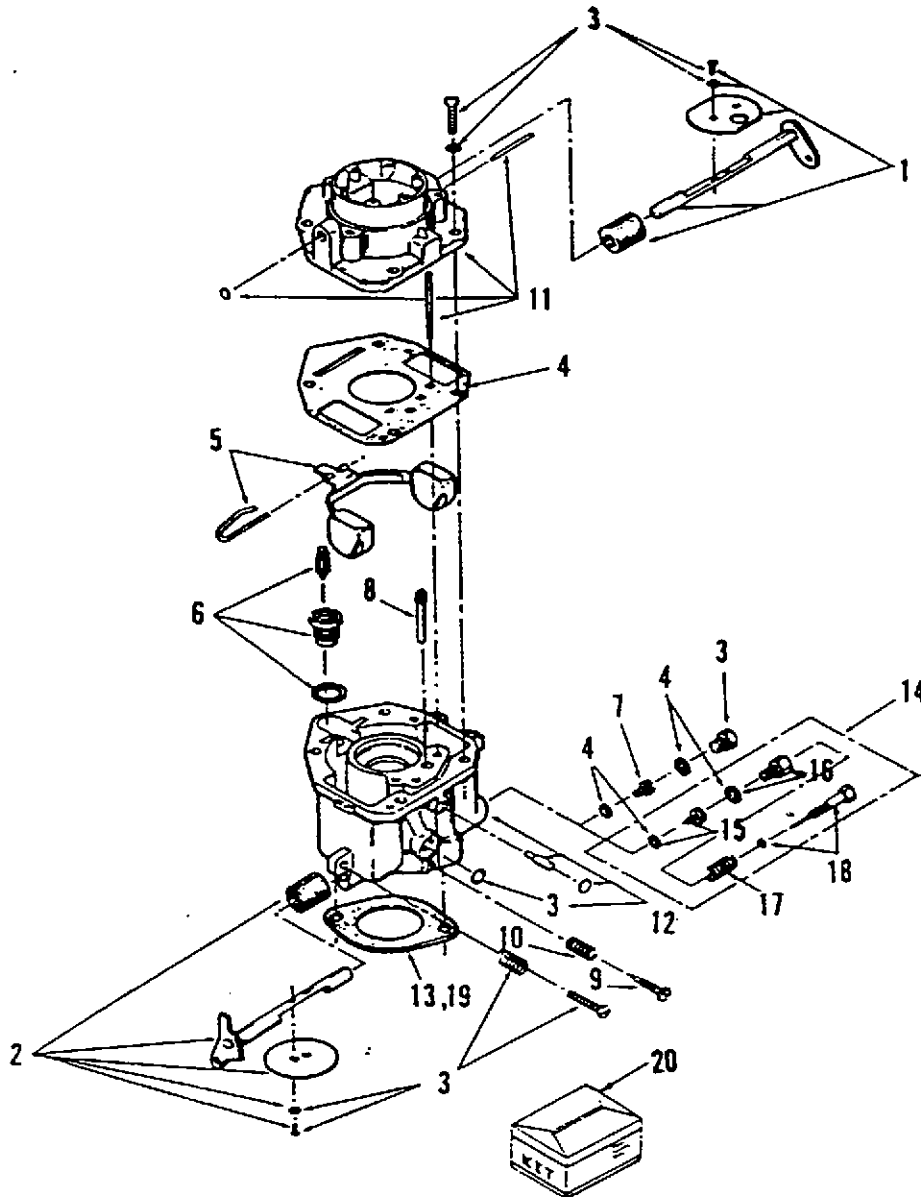
# Carburetor Components LPG



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0404	1	Carburetor, LPG (Includes Mounting Gasket)	12		1	Body (Not Sold Separately)
1	815-0389	1	Screw, Hex Washer Head	13	154-0733	2	*Gasket, Mounting - Carburetor
2	146-0418	1	Shaft, Throttle (Kit)	14	146-0327	1	Variable Jet Kit - Optional (High Altitude Application) (Includes Parts Marked +)
3	146-0322	1	*Screw and Plug Kit	15	146-0343	1	+Jet, Power - Variable (Includes Gasket)
4	146-0326	1	*Gasket Kit	16	146-0340	1	+Retainer, Needle - Power (Includes Gasket)
5	509-0145	1	Seal, O-Ring	17	146-0341	1	+Spring, Needle - Power
6	146-0329	1	*Valve and Seat Kit	18	146-0342	1	+Needle, Power - Complete
8	146-0420	1	Jet, Idle	20	146-0356	1	Kit, Repair (Includes Parts Marked *)
9	146-0335	1	*Needle, Adjusting - Idle				
10	146-0331	1	*Spring, Needle - Idle Adjusting				
11		1	Intake, Air (Not Sold Separately)				

\* - Parts Included in 146-0356 Repair Kit.  
+ - Parts Included in 146-0327 Variable Jet Kit.

# Carburetor Components Gasoline - Nikki

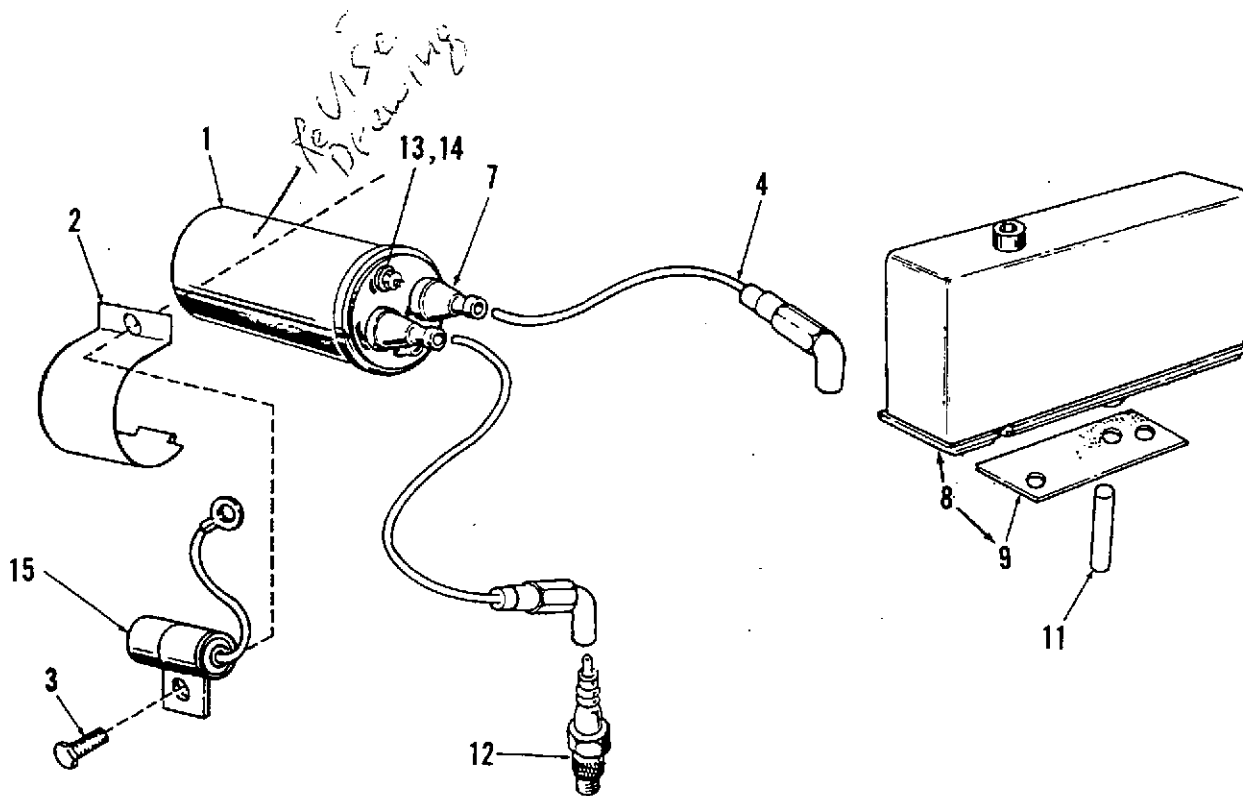


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0419	1	Carburetor, Complete (Includes Mounting Gasket) Low Profile Models	12		1	Body (Not Sold Separately)
	146-0440	1	High Profile Models	13	154-0733	2	*Gasket, Mounting - Carburetor
1	146-0417	1	Choke, Shaft Kit	14	146-0327	1	Variable Jet Kit - Optional (High Altitude Application) (Includes Parts Marked +)
2	146-0418	1	Shaft, Throttle (Kit)	15	146-0343	1	+Jet, Power - Variable (Includes Gasket)
3	146-0322	1	*Screw and Plug Kit	16	146-0340	1	+Retainer, Needle - Power (Includes Gasket)
4	146-0326	1	*Gasket Kit	17	146-0341	1	+Spring, Needle - Power
5	146-0325	1	Float, Kit	18	146-0342	1	+Needle, Power - Complete
6	146-0329	1	*Valve and Seat Kit	19	145-0438	1	*Gasket, Mounting - Carburetor
7	146-0343	1	Jet, Power	20	146-0356	1	Kit, Repair (Includes Parts Marked *)
8	146-0420	1	Jet, Idle				
9	146-0335	1	*Needle, Adjusting - Idle				
10	146-0331	1	*Spring, Needle - Idle Adjusting				
11		1	Intake, Air (Not Sold Separately)				

\* - Parts Included in 146-0356 Repair Kit.

+ - Parts Included in 146-0327 Variable Jet Kit.

## Ignition



ES 1116

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0772	1	Coil, Ignition
2	166-0588	1	Clamp, Coil
3	821-0009	4	Screw, Cap - Hex Washer Head (1/4-20x3/8")
4	167-1602	2	Cable, Spark Plug
7	160-0558	2	Nipple, Spark Plug Cable
8	160-1303	1	Box, Breaker (See Separate Page For Components) (Includes Mounting Gasket)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	160-1150	1	Gasket, Breaker Box Mounting
11	160-1151	1	Plunger, Breaker Points
12	167-0298	2	Plug, Spark
13	166-0554	2	Nut, Hex (Metric)
14	850-2005	2	Washer, Lock - Spring (Metric)
15	312-0051	1	Condenser, Ignition (.5 MFD)

160-1376 1 Kit, Electronic (converts Breaker Ignition to Electronic)

PSB#556/ur



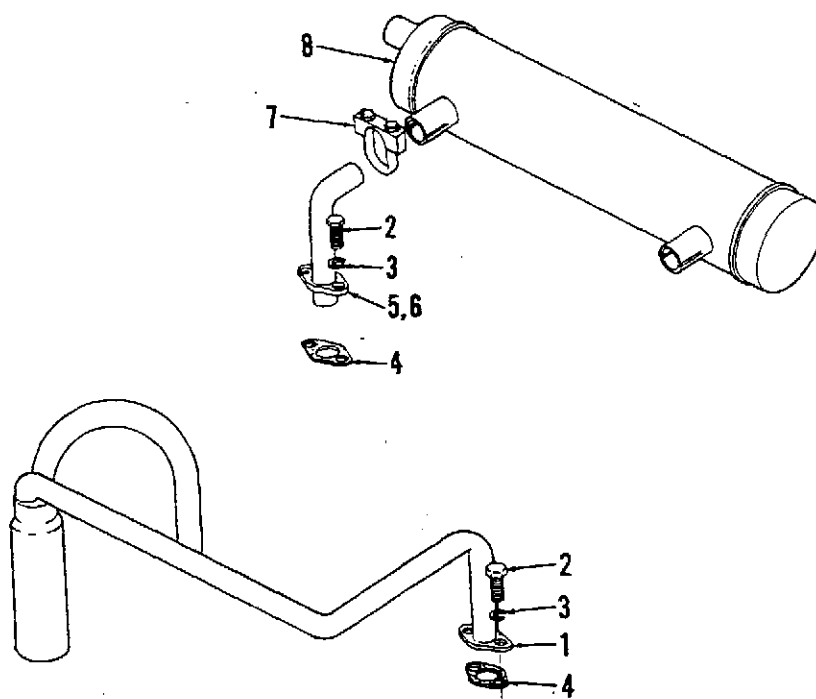
This diagram shows an exploded view of a mechanical assembly. The components are numbered as follows:

- 1**: A long vertical screw.
- 2**: A small circular washer or spacer.
- 3**: A small circular washer or spacer.
- 4**: A rectangular block or housing.
- 5**: A small circular washer or spacer.
- 6**: A small circular washer or spacer.
- 7**: A cylindrical component, possibly a motor or solenoid.
- 8**: A small circular washer or spacer.
- 9**: A small circular washer or spacer.
- 10**: A complex mechanical linkage or lever arm.
- 11**: A rectangular plate with three holes.
- 12**: A rectangular plate with three holes.
- 13**: A small circular washer or spacer.
- 14**: A cable or wire with a connector.
- 15**: A rectangular box or container labeled "KIT".

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-1303	1	Breaker Box (Includes Parts Marked*)	8	802-0034	2	*Screw, Cap - Socket Head (1/4-20 x 3/4")
1	802-0022	1	*Screw, Cap - Hex Socket (#10-24 x 1-1/2")	9	850-0040	2	Washer, Lock (1/4")
2	509-0065	1	*Retainer (O-Ring)	10	160-1183	1	*Point Set, Breaker
3	526-0008	1	*Washer, Flat (#10 Screw)	11	160-1219	1	*Base, Breaker
4	160-1285	1	*Cover, Breaker Box	12	160-1150	1	*Gasket, Breaker Box
5	815-0358	1	*Screw, Cap - Slotted (#8-32 x 3/16")	14	336-2378	1	Lead, Breaker Box to Coil
7	312-0246	1	*Condenser	15	160-1311	1	Tune Up Kit (Includes Points and Condenser)

\* - Parts Included in 160-1303 Breaker Box.

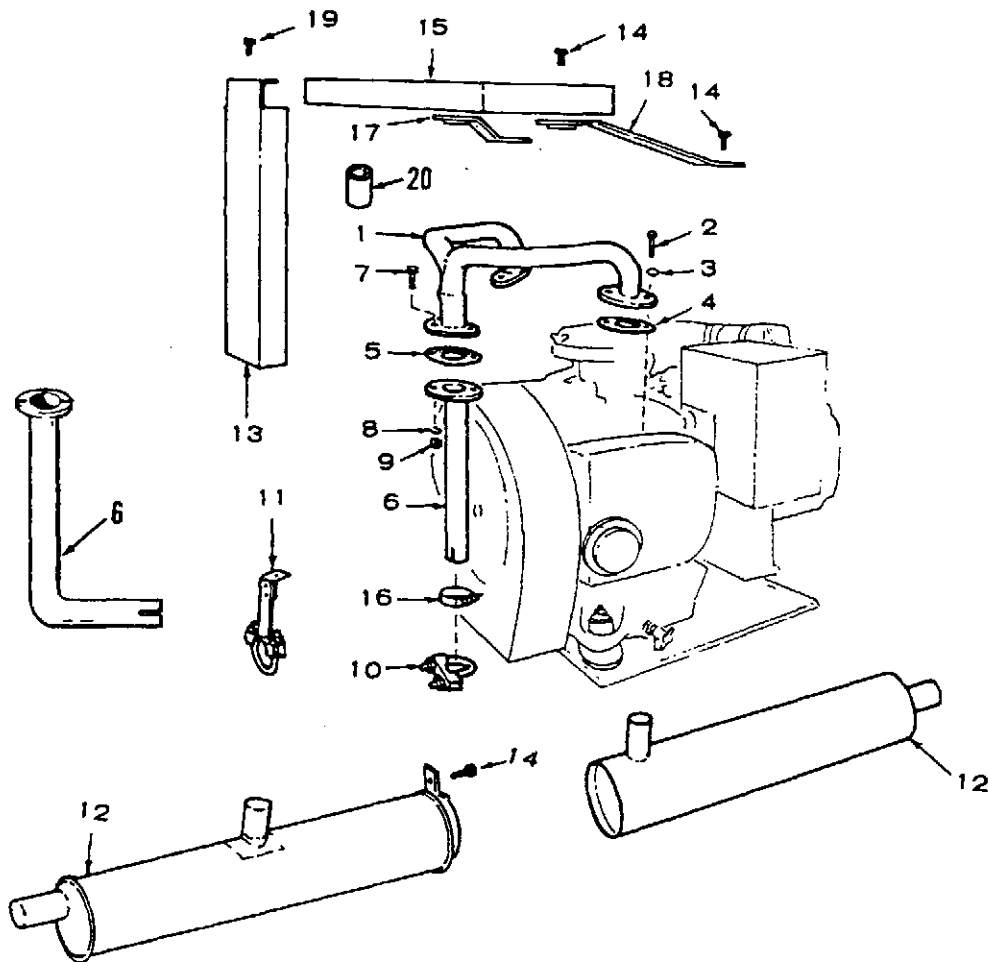
Exhaust System  
(Sets With High Profile Air Cleaner)  
Key 6, 5 (Optional)



EXS 1083

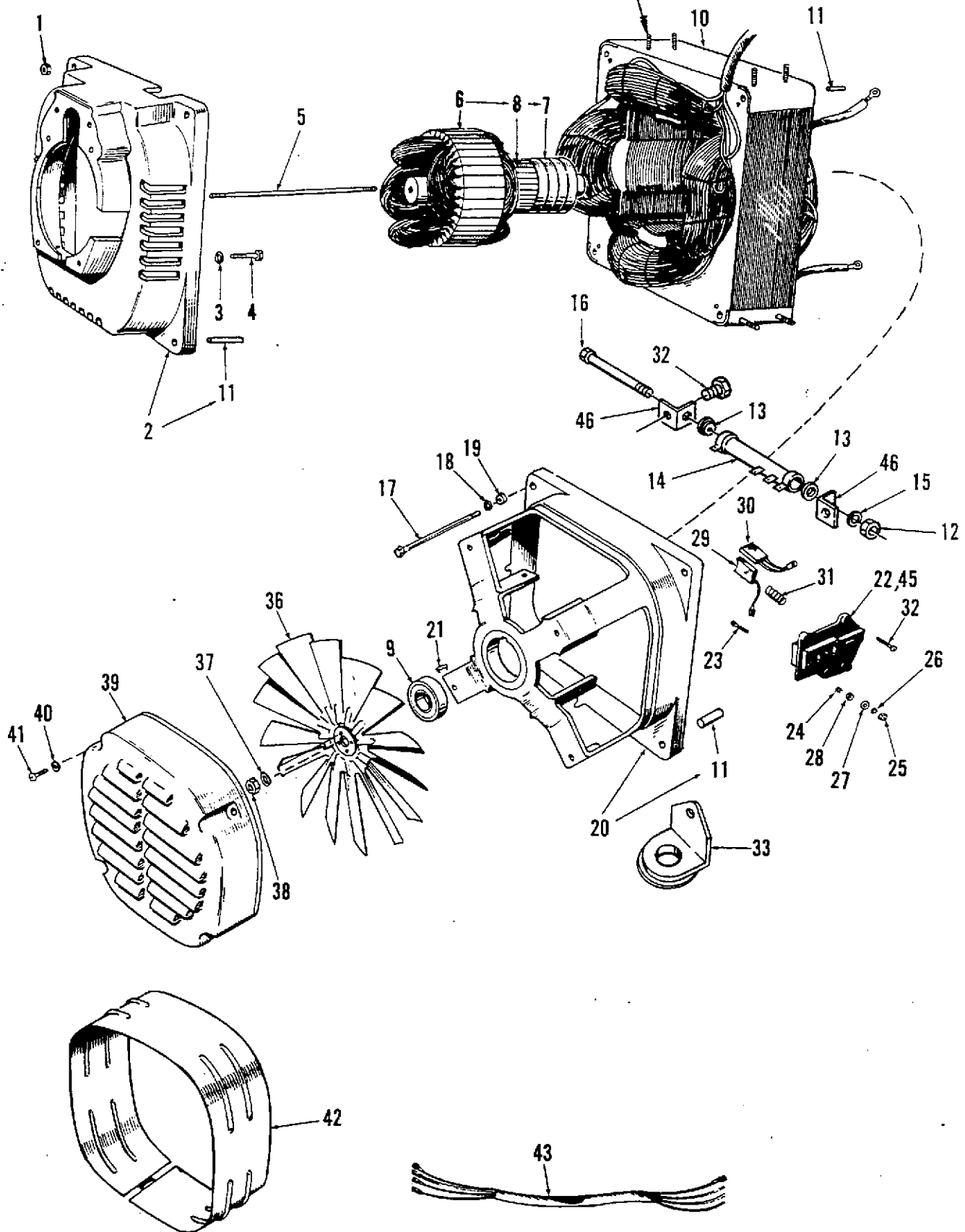
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-1762	1	Manifold, Exhaust - LH Down	5	154-2310	1	Elbow, Exhaust (Right)
2	800-0026	4	Screw, Cap - Hex Head (5/16-18 x 3/4")	6	154-2311	1	Elbow, Exhaust (Left)
3	850-0045	4	Washer, Lock - Spring (5/16")	7	155-1256	2	Clamp, Muffler
4	154-1725	2	Gasket, Exhaust Manifold	8	155-1851	1	Muffler, Exhaust (Spark Arrestor)

**Exhaust System  
(Sets With Low Profile Air Cleaner)  
UL Listed And CSA Certified  
Keys 1,2,3,4,5,7,8,9,10,11,12**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-1947	1	Manifold, Exhaust 5.25" Tall - Prior To 6/83 Keys 1,2,3,9,10,11	11	155-1234	1	Bracket And Clamp, Muffler
	154-2140	1	5.75" Tall - Keys 4,8	12	155-1258	1	Muffler, Exhaust
	154-2425	1	Includes Heat Shield - Begin 6/83		155-1520	1	End Inlet - Spark Arrestor
	154-1762	1	Left Hand Down - Key 10,5		155-1851	1	Center Inlet - Key 9
2	800-0026	4	Screw, Cap - Hex Head (5/16-18x3/4")		155-1910	1	Spark Arrestor - Key 7
3	850-0045	4	Washer, Lock - Spring (5/16")			1	Center Inlet (Used With 90° Bend Exhaust Tube)
4	154-1725	2	Gasket, Exhaust Manifold	13	154-2146	1	Shield, Heat - Down Pipe (14" Long) - Delete Keys 7,8
5	154-2061	1	Gasket, Exhaust Tube	14	821-0010	4	Screw, Cap - Hex Head - Locking (1/4-20x1/2")
6	154-1570	1	Tube, Exhaust 17" Long	15	154-1972	1	Shield, Heat - Exhaust Manifold - Prior To 6/83 - Delete Keys 7,8
	154-2143	1	12-1/2" Long	16	503-0107	1	Clamp, Shield To Exhaust Tube
	154-2554	1	90° Bend - With Attached Clamp (18" Long) (X 13.5")	17	154-1883	1	Bracket, Heat Shield - Left Side - Keys 9,12
7	800-0030	2	Screw, Cap - Hex Head (5/16-18x1-1/4")	18	154-1886	1	Bracket, Heat Shield - Right Side - Keys 9,12
8	850-0045	2	Washer, Lock - Spring (5/16")	19	821-0010	1	Screw, Cap - Locking Head (1/4-20x1/2")
9	862-0015	2	Nut, Hex (5/16-18)	20	152-0184	1	Spacer, Heat Shield Mounting - Key 9
10	155-1239	1	Clamp, Muffler				

Generator  
Keys 1,5,8,9,12



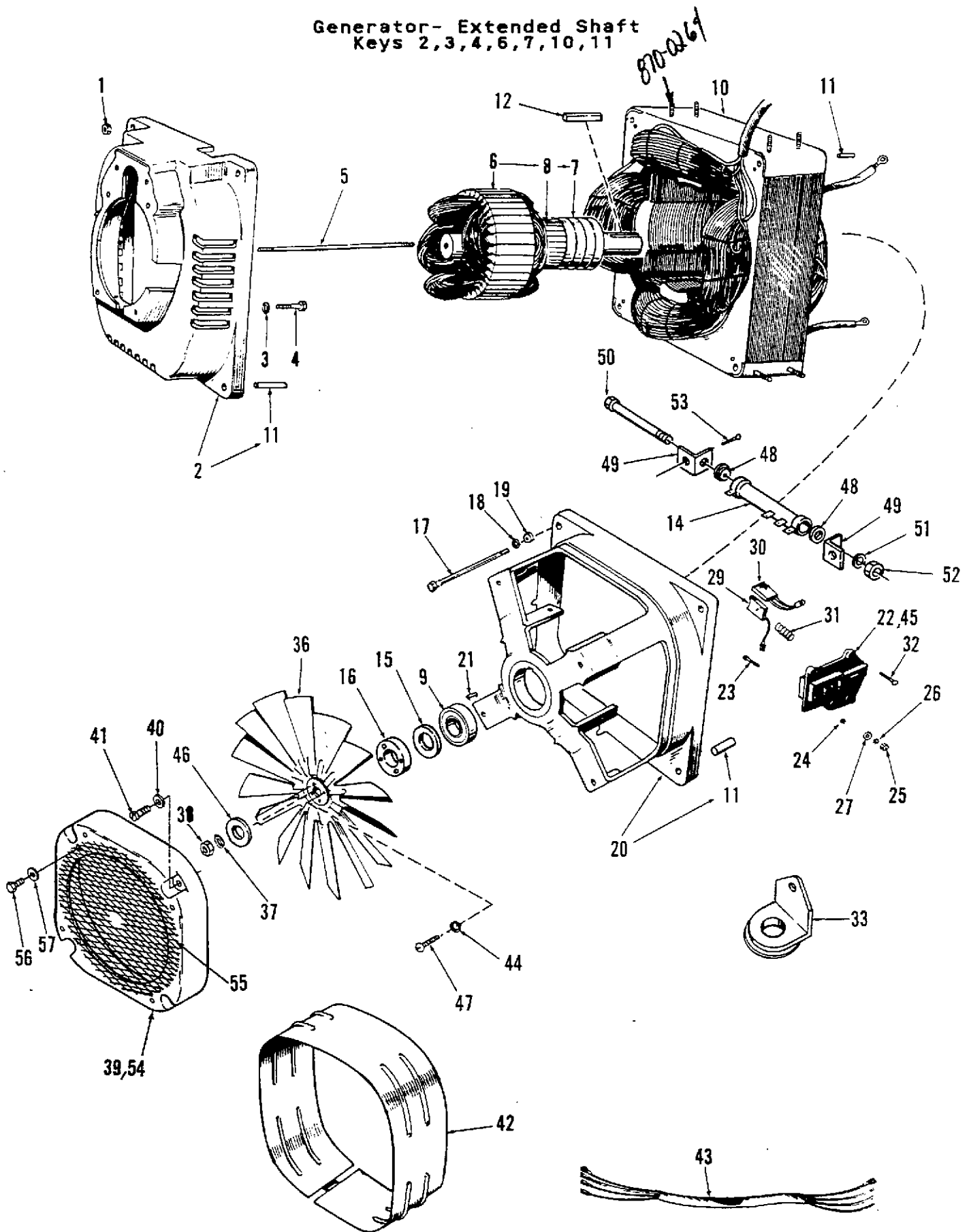
**Generator  
Keys 1,5,8,9,12**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0015	4	Nut, Hex (5/16-18)	21	232-0596	1	Clip, Bearing Retainer
2	231-0164	1	Adapter, Generator To Engine (Includes Alignment Pins)	22			Block, Generator Brush (Includes Parts Marked+)
3	850-0050	4	Washer, Lock - Spring (3/8")		212-0361	1	Top
4	800-0050	4	Screw, Cap - Hex Head (3/8-16x1-1/4")		212-0345	1	Right Side
5	520-0732	1	Stud, Armature Through		212-0352	1	Bottom
6			Armature (includes Parts Marked*)		212-0353	1	Left Side
	201-2421	1	120/240 Volt, 3 Phase - Key 5	23	815-0341	4	+Screw, Cap - Hex Head Brass (#10-32x1")
	201-2504	1	120/240 Volt, 1 Phase - Keys 9,12	24	853-0008	4	+Washer, Lock - ET (#10)
	201-2405	1	120/240 Volt, 1 Phase - Keys 1,8	25	871-0010	8	+Nut, Hex - Brass (#10-32)
7	204-0110	1	*Ring, Collector	26	853-0008	4	+Washer, Lock - ET (#10)
8	203-0153	1	*Commutator	27	526-0049	8	+Washer, Flat - Brass (#10 Screw)
9	510-0047	1	*Bearing, Ball	28	871-0010	8	+Nut, Hex - Brass (#10-32)
10			Stator, Wound	29	214-0095	4	+Brush, Commutator (DC)
	220-1818	1	120/240 Volt, 1 Phase - Keys 9,12	30	214-0096	8	+Brush, Collector Ring (AC)
	220-1820	1	120/240 Volt - Keys 1,5,8	31	212-1232	12	+Spring, Brush
11	516-0196	4	Pin, Alignment	32	815-0359	17	Screw, Cap - Hex Head - Locking - (#10-32x7/8")
12	860-0011	1	Nut, Hex (#10-24)	33	402-0475	2	Support, Generator
13	304-0015	2	Washer, Centering - Resistor	36	205-0090	1	Fan, Cooling
14			Resistor, Fixed	37	850-0055	1	Washer, Lock - Spring (7/16")
	353-0072	1	5.7 Ohms At 25 Watts, 2.5 Ohms At 50 Watts (4-1/2" Long) - Key 3	38	870-0203	1	Nut, Hex (7/16-20)
	353-0084	1	5.7 Ohms At 25 Watts, 1.6 Ohms At 50 Watts (4-1/2" Long) - Keys 7,12	39	232-2107	1	Cover, Generator
15	850-0030	1	Washer, Lock - Spring (#10)	40	850-0040	2	Washer, Lock - Spring (1/4")
16	812-0118	1	Screw, Machine - Round Head (#10-24x5")	41	812-0156	4	Screw, Round Head - Machine (1/4-20x1/2")
17	800-0043	4	Screw, Cap - Hex Head (5/16-18x5")	42	234-0362	1	Wrapper, Generator
18	850-0045	4	Washer, Lock - Spring (5/16")	43			Harness, Wiring
19	526-0115	4	Washer, Flat (5/16" Screw)		338-0946	1	1 Phase - Keys 1,8
20	211-0364	1	Bell, End (Includes 4 Locating Pins)		338-1419	1	3 Phase (6 Wire) - Key 5
					338-1852	1	1 Phase (4 Wire) - Keys 9,12
				45			+Block, Generator Brush
					212-0360	2	Top And Left Side
					212-0359	2	Bottom And Right Side
				46	304-0706	2	Bracket, Resistor Mounting

\* - Parts Included In The Armature.

+ - Parts Included In The Brush Block.

Generator- Extended Shaft  
Keys 2,3,4,6,7,10,11

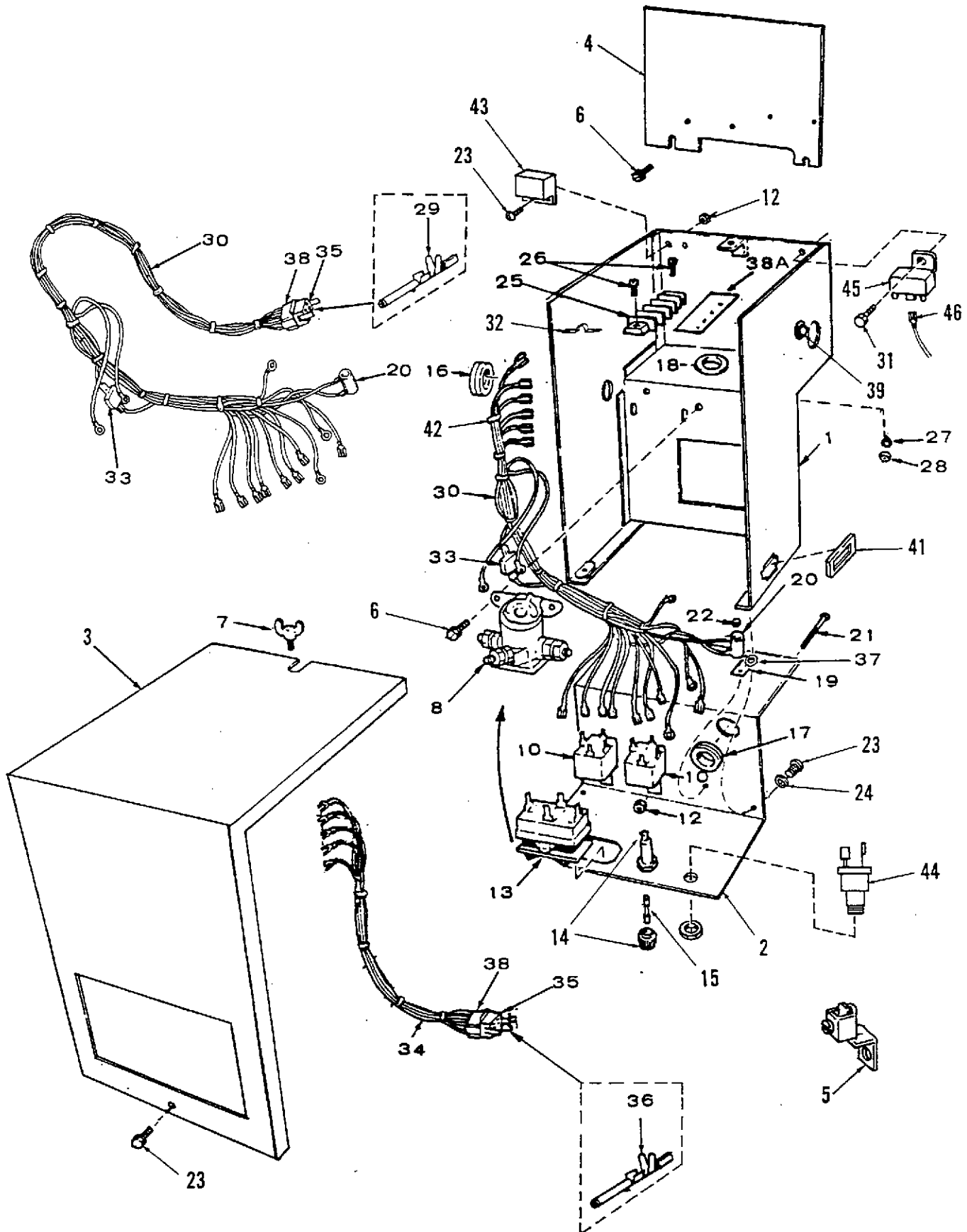


# Generator- Extended Shaft Keys 2,3,4,6,7,10,11

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0015	4	Nut, Hex (5/16-18)	22			Block, Generator Brush (Includes Parts Marked*)
2	231-0164	1	Adapter, Generator To Engine (Includes Alignment Pins)		212-0361	1	Top
3	850-0050	4	Washer, Lock - Spring (3/8")		212-0345	1	Right Side
4	800-0050	4	Screw, Cap - Hex Head (3/8-16x1-1/4")		212-0352	1	Bottom
5			Stud, Armature Through		212-0353	1	Left Side
	520-0733	1	7/16 x 17-1/8" Long - Key 6	23	815-0341	4	+Screw, Cap - Hex Head Brass (#10-32x1")
	520-0781	1	7/16 x 17-7/8" Long - Keys 2,3,4,7,10,11	24	853-0008	8	+Washer, Lock - ET (#10)
6			Armature (Includes Parts Marked*)	25	871-0010	8	+Nut, Hex - Brass (#10-32)
	201-2524	1	120/240 Volt, 1 Phase Keys 4,7	26	853-0008	8	+Washer, Lock - ET (#10)
	201-2531	1	120/240 Volt, 3 Phase - Keys 10,11	27	526-0049	8	+Washer, Flat - Brass (#10)
	201-2528	1	120/240 Volt, 3 Phase - Key 6	29	214-0095	4	+Brush, Commutator (DC)
	201-2573	1	120 Volts, 1 Phase - 2 Step Battery Charger - Keys 2,3	30	214-0096	8	+Brush, Collector Ring (AC)
7			*Ring, Collector	31	212-1232	12	+Spring, Brush
	204-0110	1	4 Wire, 120/240 Volt	32	815-0359	17	Screw, Cap - Hex Head - Locking - (#10-32x7/8")
	204-0125	1	2 Step Battery Charger - 120 Volt Single Phase	33	402-0475	2	Support, Generator
8	203-0153	1	*Commutator	36	205-0116	1	Fan, Cooling
9	510-0047	1	*Bearing, Ball	37	850-0055	1	Washer, Lock - Spring (7/16")
10			Stator, Wound	38	870-0203	1	Nut, Hex (7/16-20)
	220-1820	1	120/240 Volt - Keys 4,6,7,10,11	39	232-2827	1	Cover, Generator (Includes Parts Marked#)
	220-1823	1	2 Step Battery Charger - 120 Volt - Keys 2,3	40	850-0040	4	Washer, Lock - Spring (1/4")
11			Pin, Alignment	41	812-0156	4	Screw, Round Head - Machine (1/4-20x 1-1/2")
	516-0196	4	Keys 2,7,10	42	234-0362	1	Wrapper, Generator
	516-0182	4	Keys 3,4,6,11	43			Harness, Wiring
12	515-0015	1	Key, Extended Shaft (3/16x1-3/4")		338-0947	1	3 Phase - Keys 10,11
14			Resistor, Fixed		338-0946	1	1 Phase - Keys 4,7
	353-0072	1	5.7 Ohms At 25 Watts, 2.5 Ohms At 50 Watts (4-1/2" Long) - Keys 5,6		338-1419	1	3 Phase (6 Wire) - Key 6
	353-0084	1	5.7 Ohms At 25 Watts, 1.6 Ohms At 50 Watts (4-1/2" Long) - Keys 7,10,11		338-0948	1	1 Phase - 2 Wire - Keys 2,3
15	526-0044	2	Washer, Flat (1" Screw)	44	850-0030	4	Washer, Lock (#10)
16	232-2586	1	Hub, Fan	45			+Block, Generator Brush
17	800-0043	4	Screw, Cap - Hex Head (5/16-18x5")		212-0360	2	Top And Right Side
18	850-0045	4	Washer, Lock - Spring (5/16")		212-0359	2	Bottom And Left Side
19	526-0115	4	Washer, Flat (5/16" Screw)	46	526-0032	1	Washer, Flat (7/16" Screw)
20	211-0365	1	Bell, End (Includes 4 Alignment Pins)	47	804-0016	4	Screw, Socket Head (10-32x3/8")
21	232-0596	1	Clip, Bearing Retainer	48	304-0015	2	Washer, Centering - Resistor
				49	304-0706	2	Bracket, Resistor Mounting
				50	812-0118	1	Screw, Pan Head (#10 x 5")
				51	850-0030	1	Washer, Lock (#10)
				52	860-0011	1	Nut, Hex (#10-24)
				53	815-0333	2	Screw, Round Head (#10-32x1/2")
				54	232-2587	1	#Cover, Fan
				55	234-0530	1	#Screen, Fan
				56	815-0350	4	#Screw, Hex Washer Head - Slotted (#10-32x3/8")
				57	526-0009	4	#Washer, Flat (#10 Screw)
					98-5713	1	Label, Warning (Not Shown)

\* - Parts Included In The Armature.  
+ - Parts Included In The Brush Block.  
# - Parts Included In 232-2827 Fan Cover.

# Control





# Control Keys 1,2,3,4,7,8,9,10,11,12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-4634	1	Box, Control	27			Washer, Lock
2			Panel, Control	853-0003	2		External (#6)
	301-4442	1	Units Without Ignition Switch	854-0006	2		Internal (#6)
	301-9011	1	Units With Ignition Switch	28	860-0005	2	Nut, Hex (#6-32)
3			Cover, Control Box (Includes Schematic)	29	323-0488	5	#Pin, Connector - Female
	301-4545	1	<del>2 Step Battery Charger Without Ignition Switch - Keys 1,9,10,11,12</del>	30			Harness, Wiring (Includes Parts Marked*)
	301-4894	1	<del>2 Step Battery Charger Without Ignition Switch - Keys 2,3,4,7,8</del>	338-1200	1		Without Key Operated Ignition Switch - With Electric Choke Keys 1,2,3,4,8,9,10,12
4	301-4441	1	Plate, Control	338-1677	1		Without Key Operated Ignition Switch - Without Electric choke - Keys 7,11
5	332-0142	1	Terminal, Solderless - Keys 7,11	338-1820	1		With Key Operated Ignition Switch - With Electric Choke
6	821-0008	4	Screw, Hex - Self-Lock (1/4-20x5/16")	31	815-0350	1	Screw, Hex Washer Head (10-32x3/8")
7	518-0056	1	Screw, Wing (#10-32x1/2")	32	332-1043	1	*Jumper, Terminal Block
8	307-1617	1	Relay, Start Solenoid	33	357-0030	1	*Rectifier, Silicon
10	307-2562	2	*Relay, Ignition (Crank And Run)	34			Harness, Wiring - Remote
12	870-0131	4	Nut, Hex W/ET (#10-32)	338-1082	1		Includes Parts Marked+ - Key 9
13	308-0383	1	Switch, Start-Stop	338-1078	1		Includes Parts Marked*
14			Holder, Fuse	35	323-0400	1	+Pin, Housing Connector
	321-0175	2	Units Without Ignition Switch	36	323-0500	5	+Pin, Connector - Male
	321-0175	1	Units With Ignition Switch	37	508-0015	1	Washer, Insulator
15			Fuse	38	323-0440	1	#Housing, Socket
	321-0174	2	5 Ampere	38A			Strip, Marker
	321-0146	1	10 Ampere	332-2099	1		Use With 332-0254 Block - Without Ignition Switch - Keys 9,12
16	508-0208	1	Bushing, Nylon	332-2103	1		Use With 332-0699 Block
17	331-0088	1	Bushing, Insulating	332-2313	1		Use With 332-0254 Block - With Ignition Switch
18	508-0191	1	Bushing, Nylon	39	320-0540	2	Breaker, Circuit - 15 Amp - Keys 9,12
19	304-0580	1	Insulator, Resistor Mounting	41	508-0021	1	Grommet, Rubber
20	352-0161	1	*Resistor, 100-Ohm, 5 Watt	42	332-0942	16	*Tie, Cable
21	812-0087	1	Screw, Machine - Round Head (#8-32x1-1/2")	43	305-0383	1	Regulator, Voltage
22	870-0221	1	Nut, Hex W/ET (#8-32)	44	308-0788	1	Switch, Ignition - With Key
23	821-0004	5	Screw, Cap - Hex Head (#10-32x5/16")	45	307-1575	1	Relay, Ignition (Key 308-0921)
24	854-0010	2	Washer, Lock - IT (#10)	46	332-0556	1	Connector, Relay
25			Block, Terminal				Connector, Wire Nut (Not Shown)
	332-0254	1	4 Terminal, 50 Amps - Keys 9,12	323-1088	3		Keys 4,7,8,9,12
	332-0699	1	* 6 Terminal, 20 Amps	323-1088	2		Keys 2,3
26			Screw, Round Head - Machine (#6-32x5/8")				
	812-0065	2	(#6-32x3/4") - Units With Ignition Switch - Key Operated				
	812-0066	2					

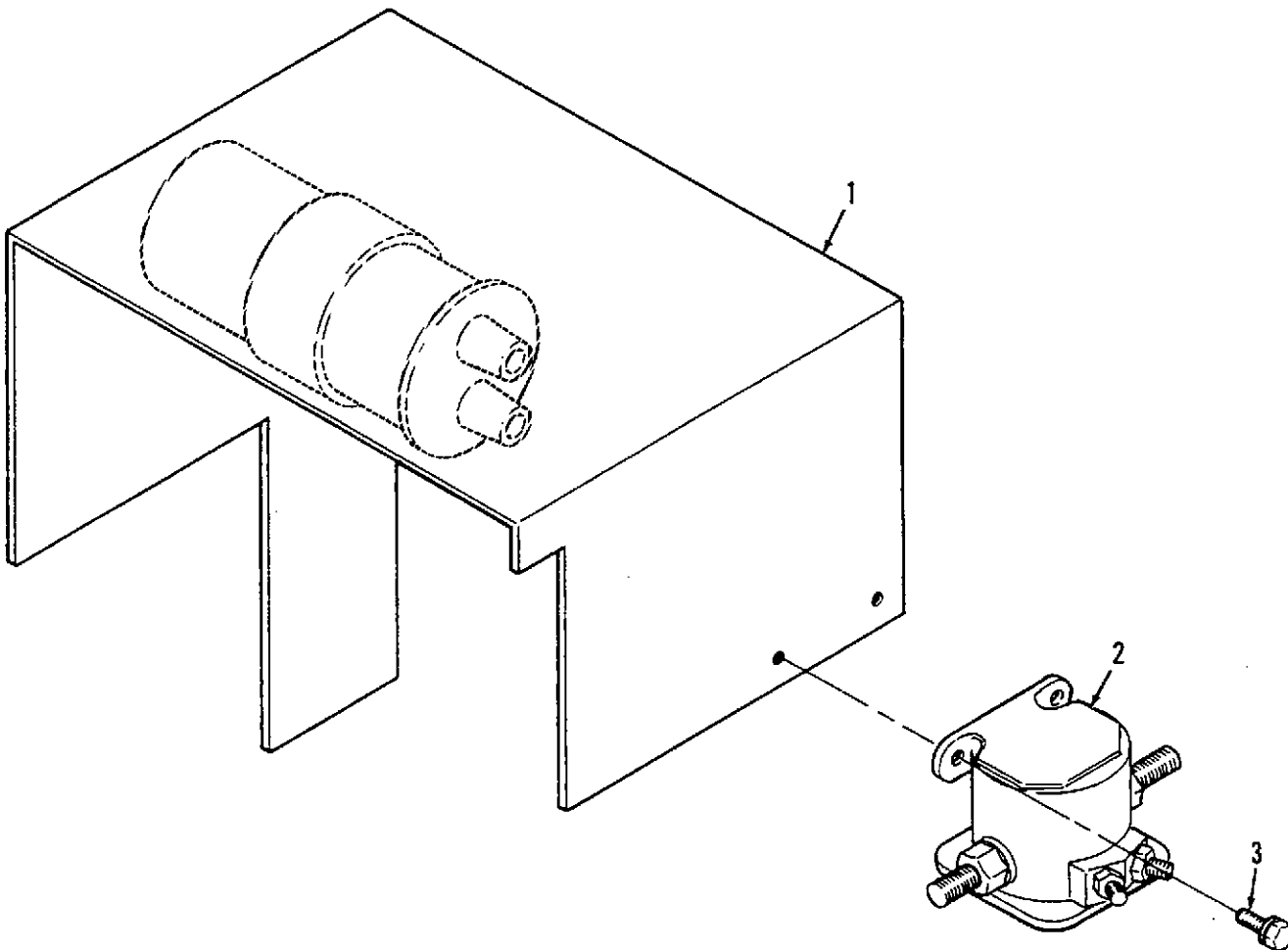
\* - Parts Included In Wiring Harness 338-1200, 338-1677, 338-1820.

# - Parts Included In Wiring Harness 338-1078.

+ - Parts Included In Wiring Harness 338-1082.

*Q/W for Key (308-0921) see NH JF/pty*

Control  
Keys 5,6



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-0664	1	Bracket, Generator Frame
2	307-1193	1	Relay, Start Solenoid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	821-0009	2	Screw, Cap - Hex Washer Head (1/4-20x3/8")

## Labels, Paint And Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
98-2899		1	Decal, Warning - Battery - Keys 1,2,3,4,5,7,8,9,10,11,12	98-4267		1	Decal, Identification (4.0 RV) Keys 4,8,10,11
98-3234		1	Decal, Control Panel - Keys 1, 2,3,4,7,8,9,10,11,12	98-4690		1	Decal, Identification (4.0 Gen. Set) - Keys 7,9,12
98-3278		1	Decal, Choke Label - Keys 1,4, 5,8,10,11	518-0452		1	Sealant, Thread (50cc. Bottle)
98-4856		1	Decal, Service Instructions - Keys 2,3,4,5,7,8,9,10,11,12	525-0305		1	Paint, Enamel Touch-Up - Green (Non-Metallic) 13oz. Pressur- ized Can
98-2863		1	Decal, Service Instructions - Keys 1,6				

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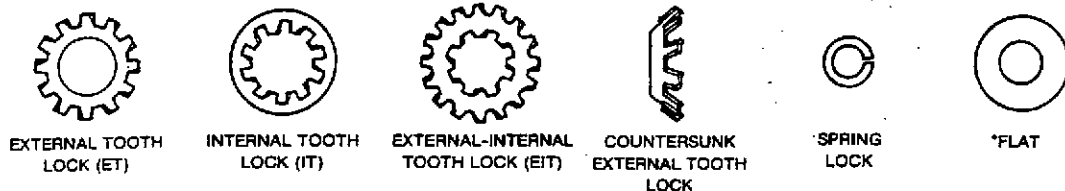
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517-0120	5	800-0028	17	816-0197	12	860-0011	27
518-0004	10	800-0030	23	816-0206	12	862-0004	12
518-0014	7	800-0032	9	821-0004	17	862-0015	15
518-0056	29	800-0033	15	821-0004	29	862-0015	17
518-0311	8	800-0033	17	821-0008	13	862-0015	23
518-0350	15	800-0034	9	821-0008	15	862-0015	25
518-0350	17	800-0034	17	821-0008	17	862-0015	27
518-0387	17	800-0043	25	821-0008	29	865-0006	17
518-0390	15	800-0043	27	821-0009	15	865-0019	15
518-0452	31	800-0047	12	821-0009	17	870-0053	10
520-0732	25	800-0050	25	821-0009	20	870-0131	10
520-0733	27	800-0050	27	821-0009	30	870-0131	29
520-0781	27	800-0051	5	821-0010	13	870-0203	25
525-0305	31	800-0064	12	821-0010	23	870-0203	27
526-0008	21	800-0082	12	821-0018	12	870-0212	15
526-0009	27	800-0540	5	850-0030	15	870-0221	29
526-0014	12	800-0541	5	850-0030	17	870-0302	8
				850-0030	25	871-0010	25
				850-0030	27	871-0010	27

# HARDWARE IDENTIFICATION

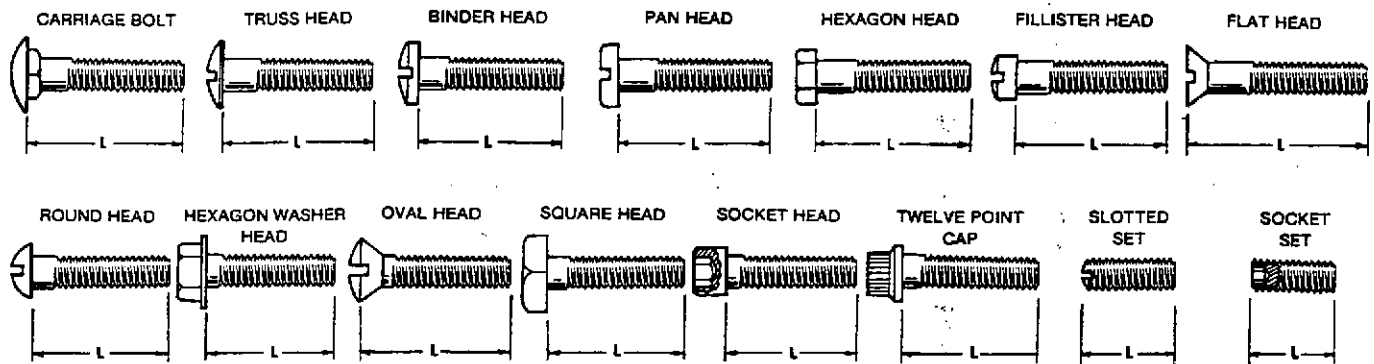
Illustrated hardware items are only for identification purposes. All hardware items listed throughout this par catalog are steel SAE grade five (5) or lower (zinc plated with clear chromate dip) unless parts descriptic indicates differently. All dimensions are in inches.

## WASHER TYPES



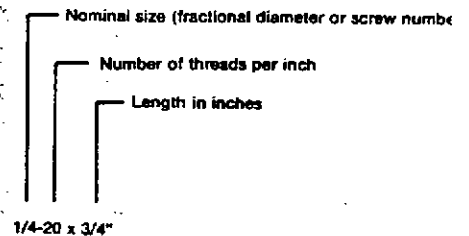
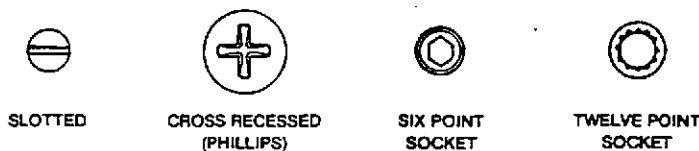
\* - Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

## BOLT AND SCREW TYPES



L - Measure length between these points.

### INTERNAL DRIVE TYPES



## NUT TYPES



SPECIAL PARTS LIST FOR MODEL 4.0 BFA-3CR SPEC 15000C  
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.       
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)  
WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
146-0419	1	Carburetor, Gasoline (For breakdown parts, see Parts Catalog 965-0262)			



SPECIAL PARTS LIST FOR MODEL 4.0 BFA-8R SPEC 15000D  
 FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.       
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BEI  
 WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

RV Style Air Cleaner (Plastic)  
 Gasoline Fuel System

201-2413	1	Armature Assembly (Includes parts marked *)			
204-0110	1	*Ring, Collector			
203-0153	1	*Commutator			
510-0047	1	*Bearing, Ball			
338-0947	1	Harness, Wiring - 4 wire			
301-4894	1	Cover, Control Box (Includes Schematic)			
323-1088	2	Connector, Wire Nut			

SPECIAL PARTS LIST FOR MODEL 4.0 BFA-1R

SPEC 19486C

FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
146-0419	1	Carburetor, Gasoline (For breakdown parts, See Parts Catalog 965-0262)			
338-0948	1	Harness Wiring			
301-4894	1	Cover, Control Box			
323-1088	2	Connector, Wire Nut - Control			

SPECIAL PARTS LIST FOR MODEL

4.0 BFA-1R

SPEC

19486D

FOR STANDARD PARTS REFER TO CATALOG

965-0262

KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

RV Style Air Cleaner (Plastic)  
Gasoline Fuel System  
Two-Step Battery Charger,  
Extended Shaft Generator

338-0948	1	Harness, Wiring - 4 Wire
301-4894	1	Cover, Control Box (Includes Schematic)
323-1088	2	Connector, Wire Nut

SPECIAL PARTS LIST FOR MODEL

4.0BFA-3CR

SPEC

20275C

FOR STANDARD PARTS REFER TO CATALOG

965-1262

KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Right Vacu Flo Exhaust (90°)  
Extended Shaft Generator  
RV Style Air Cleaner (plastic)  
Gasoline Fuel System

PARTS NOT FURNISHED BY CMAN

Exhaust Heat Shields

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA-5DR SPEC 22540C  
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.           
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)  
WIRING DIAGRAM NO. 606-0205

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

MANUFACTURED FOR: GENERAL CABLE

RV Style Air Cleaner (plastic)  
Gasoline Fuel System  
Cross-over Muffler With Spark Arrestor  
Valve Stem Oil Seals-Intake  
Air Cleaner Wrapper  
Two-Step Battery Charger

234-0664	1	Bracket, Fuel Pump, Coil and Start Solenoid
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PARTS NOT FURNISHED BY OEM

Control Assembly

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SPECIAL PARTS LIST FOR MODEL 4.0 BEA-SDRSPEC 22541C

FOR STANDARD PARTS REFER TO CATALOG

965-0262KEY NO.         

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.         606-0220

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
MANUFACTURED FOR: GENERAL CABLE					
Industrial Style Air Cleaner					
Gasoline Fuel System					
Exhaust Manifold, Left Hand Down					
Extended Shaft Generator					
Valve Stem Oil Seals-Intake					
Two-Step Battery Charger					
Air Cleaner Wrapper					
234-0664	1	Bracket, Fuel Pump, Coil and Start Solenoid			
Parts Not Furnished By Onan					
Exhaust Heat Shields					
Mounting Plate					
Control Assembly					

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PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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### Exhaust Heat Shields



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SPECIAL PARTS LIST FOR MODEL 4.0 BFA - 3CR SPEC 25505C  
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.         
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

MANUFACTURED FOR: TIME MANUFACTURING

RV Style Air Cleaner (plastic)  
Gasoline Fuel System  
Valve Stem Oil Seals-Intake  
Extended Shaft Generator  
Air Cleaner Wrapper

PARTS NOT FURNISHED BY ONAN

Exhaust Heat Shields

Dated 11/19/84

Revised       

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SPECIAL PARTS LIST FOR MODEL 4.0BFA-3CR SPEC 25998C  
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.           
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-10

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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		RV Style Air Cleaner (plastic)			
		LP Vapor Fuel System			
		Right Vacu Flo Exhaust (90°)			
		Spark Arrestor Muffler			
		Extended Shaft Generator			
		Two-Step Battery Charger			
		Valve Stem Oil Seals-Intake			

PARTS NOT FURNISHED BY ONAN

Exhaust Heat Shields

Dated         

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SPECIAL PARTS LIST FOR MODEL 4.0BFA-3CR SPEC 26651C  
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO. \_\_\_\_\_  
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-34

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

Valve Stem Oil Seals-Intake  
RV Style Air Cleaner (Plastic)  
Gasoline Fuel System  
Left Vacu Flo Exhaust (270°)

PARTS NOT FURNISHED BY CUMMINS

Exhaust Heat Shields

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WIRING DIAGRAM NO. 611-1171-03

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA-5DRSPEC 26927C

FOR STANDARD PARTS REFER TO CATALOG

955-0262

KEY NO. \_\_\_\_\_

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

		Industrial Style Air Cleaner			
		Gasoline Fuel System			
		Valve Stem Oil Seals-Intake			
		Exhaust Manifold, Left Hand Down			
		Extended Shaft Generator			
		Air Cleaner Wrapper			

PARTS NOT FURNISHED BY OMAR

Exhaust Heat Shields  
Mounting PlateDated 11/20/84

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA - 5DR SPEC 27614C  
FOR STANDARD PARTS, REFER TO CATALOG # 965-0262 KEY NO.         
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
MANUFACTURED FOR: TIME MANUFACTURING					
RV Style Air Cleaner (Plastic)					
Gasoline Fuel System					
Extended Shaft Generator					
Two-Step Battery Charger					
Air Cleaner Wrapper					
Valve Stem Oil Seals-Intake					
Parts Not Furnished by Gen					
Exhaust Heat Shields					

Dated 11/20/84 Revised        Page 1 of 1



SPECIAL PARTS LIST FOR MODEL 4.0 BFA-5DRSPEC 27036CFOR STANDARD PARTS REFER TO CATALOG 965-0262KEY NO.         

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1170-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

MANUFACTURED FOR: GEN CABLE

RV Style Air Cleaner (plastic)

Gasoline Fuel System

Valve Stem Oil Seals-Intake

Extended Shaft Generator

Control With Key Operated Ignition Switch

Two-Step Battery Charger

Air Cleaner Wrapper

Spark Arrestor Muffler

Parts Not Furnished by Onan

Exhaust Heat Shields

Dated

11/25/84

Revised

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA-3CR

SPEC 27318C

FOR STANDARD PARTS, REFER TO CATALOG 265-0262

KEY NO.         

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

		RV Style Air Cleaner (plastic)			
		Gasoline Fuel System			
		Left Vacu Flo Exhaust (270°)			
		Valve Stem Oil Seals-Intake			

Dated 11/20/84

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SPECIAL PARTS LIST FOR MODEL 4.0 BPA-5DRSPEG 27696CFOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.       

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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MANUFACTURED FOR: PACIFIC BELL

RV Style Air Cleaner (Plastic)  
Gasoline Fuel System  
Exhaust Manifold, Left Hand Down  
Extended Shaft Generator  
Valve Stem Oil Seals-Intake  
Two-Step Battery Charger  
Air Cleaner Wrapper

Parts Not Furnished By Onan

Exhaust Heat Shields

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SPECIAL PARTS LIST FOR MODEL 4.0 BEA-3CR SPEC 28530C  
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.         
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1171-03

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
----------	------	-------------	----------	------	-------------

RV Style Air Cleaner (Plastic)  
Gasoline Fuel System  
Two-Step Battery Charger

338-1852	1	Harness, Wiring - 4 Wire
323-1088	3	Connector, Wire Nbt
152-0184	1	Spacer, Heat Shield Mounting